

CITY OF AUSTIN, TEXAS

AUSTIN WATER

REVIEWED BY THE AUSTIN WATER UTILITIES



REVIEWED
JAN 15 2020

Austin Water Utility

AUSTIN WATER UTILITY
EXPIRATION DATE
JAN 15 2023

ONION CREEK DISTRICT PARK RECLAIMED MAIN PHASE 2

SUB PROJECT ID: 5267.068
RECLAIMED ID: R-2020-0005

REVIEWED BY THE AUSTIN WATER UTILITY
APPLIES ONLY TO FACILITIES WITHIN PUBLIC
STREETS OR PUBLIC UTILITY EASEMENTS. ALL
OTHER WATER AND WASTEWATER FACILITIES
INSIDE PRIVATE PROPERTY ARE UNDER THE
JURISDICTION OF BUILDING INSPECTION.

ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER. APPROVAL OF THESE PLANS BY THE CITY OF AUSTIN DOES NOT REMOVE THESE RESPONSIBILITIES.

Inspection Notice:
Please contact Public Works, Construction Inspection
Division at 714-643-1391 for arrangements for payment of
inspection fees and job assignment for inspection of the
public utilities related to this site. Inspection fees must
be paid before any pre-construction meeting can be held.

PROJECT INFORMATION:

STREET ADDRESS:
8340-8696 NUCKOLS CROSSING RD
AUSTIN, TX 78744

SPONSOR:
CITY OF AUSTIN
AUSTIN WATER
RECLAIMED WATER
625 E. 10TH ST., STE. 100
AUSTIN, TX 78701

CONTACT:
DAN PEDERSEN, PE
PHONE: (512) 972-0074
EMAIL: dan.pedersen@austintexas.gov

PROJECT MANAGEMENT:
CITY OF AUSTIN
AUSTIN WATER
RECLAIMED WATER
625 E. 10TH ST., STE. 100
AUSTIN, TEXAS 78701

CONTACT:
BRENT CRAWFORD, EIT
PHONE: (512) 974-3542
EMAIL: brent.crawford@austintexas.gov

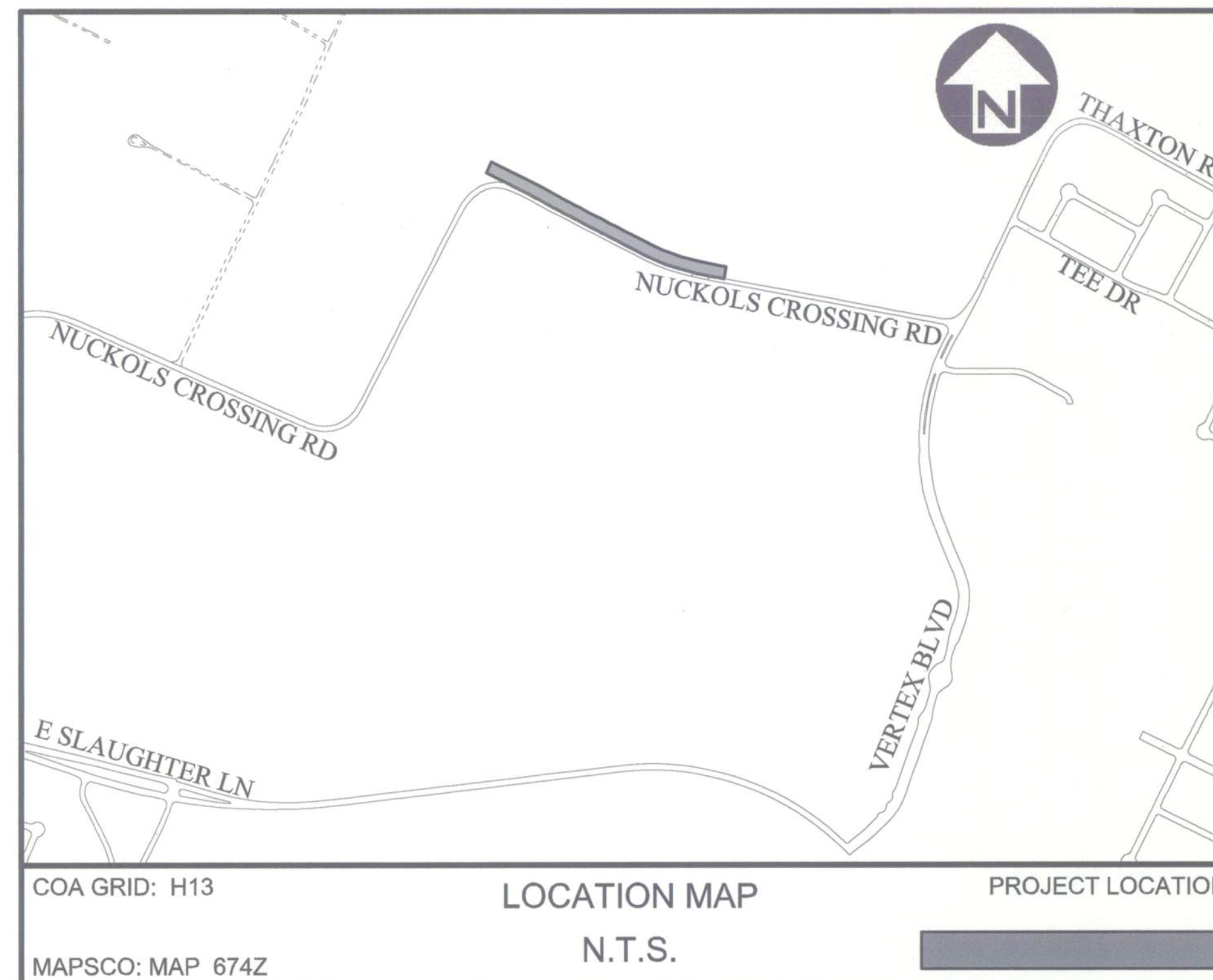
NOTES:

- CONTRACTOR SHALL NOTIFY THE PUBLIC WORKS DEPARTMENT 24 HOURS PRIOR TO STARTING CONSTRUCTION OR CLEARING OPERATIONS.
2. CONTRACTOR SHALL CALL "ONE CALL" AT 811 FOR UTILITY LOCATIONS AT LEAST 48 HOURS PRIOR TO ANY WORK IN CITY EASEMENTS OR STREET RIGHT OF WAYS.
3. THIS PROJECT IS LOCATED WITHIN THE ONION CREEK WATERSHED (CLASSIFIED AS SUBURBAN) AND SHALL BE DEVELOPED, CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH CHAPTER 25 OF THE CODE OF THE CITY OF AUSTIN.
4. A PORTION OF THIS SITE IS LOCATED WITHIN PARKLAND OR LAND USED FOR PARK PURPOSES. (IF SUCH LAND IS INCLUDED, DOCUMENTATION OF PARKS AND RECREATION DEPT APPROVAL IS REQUIRED AT THE TIME OF SUBMITTAL FOR GENERAL PERMIT PROGRAM APPROVAL.)
5. NO PORTION OF THIS SITE IS LOCATED WITHIN THE 100-YEAR FLOODPLAIN, PER CITY OF AUSTIN AND FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP(S) NO 48453C0595J, DATED JANUARY 6, 2016.
6. THIS PROJECT IS NOT WITHIN THE EDWARDS AQUIFER RECHARGE ZONE AS DEFINED BY THE CITY OF AUSTIN. THIS PROJECT IS NOT WITHIN THE EDWARDS AQUIFER RECHARGE ZONE AS REGULATED BY THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ).
7. THERE ARE NO CRITICAL ENVIRONMENTAL FEATURES WITHIN 150' OF ANY PORTION OF THIS PROJECT. A FIELD INVESTIGATION HAS NOT BEEN PERFORMED AS A PART OF THIS PROJECT. (A FIELD INVESTIGATION HAS NOT BEEN PERFORMED AS A PART OF THIS PROJECT AND IS NOT REQUIRED.)
8. THE STANDARD SHEETS INCLUDED IN THIS PLAN SET WERE PROVIDED BY THE GENERAL PERMIT PROGRAM OFFICE FOR USE ON GENERAL PERMIT PROJECTS ONLY. IF ANY MODIFICATIONS TO THE SHEETS WERE MADE, THEY ARE CLEARLY INDICATED ON THE SHEET ITSELF AND IN THE COVER SHEET INDEX.
9. ADDITIONAL TRENCH E/S CONTROL: TRIANGULAR SEDIMENT FILTER DIKE WILL BE INSTALLED ACROSS FULL WIDTH OF TRAFFIC CLOSURE AND DOWNSTREAM OF CONSTRUCTION AREA, PERPENDICULAR TO CURB. FILTER DIKE TO FOLLOW ACTIVE CONSTRUCTION. REMOVING AND RE-SETTING FILTER DIKE IS CONSIDERED SUBSIDIARY TO BARRICADES AND TRAFFIC HANDLING.
10. PROJECT SCHEDULE MUST BE APPROVED BY THE GENERAL PERMIT PROGRAM (GPP) COORDINATOR. INSTALLATION AND REMOVAL OF TEMPORARY AND PERMANENT EROSION/SEDIMENTATION CONTROLS MUST BE REFLECTED IN THE SCHEDULE, BY STATION NUMBER. GPP INSPECTOR MUST BE NOTIFIED A MINIMUM OF 48 HOURS IN ADVANCE OF TRANSITION BETWEEN PHASES.
11. APPROPRIATE EASEMENTS/APPROVALS MUST BE SECURED AND DOCUMENTED FOR PROJECT AREAS LOCATED OUTSIDE OF RIGHT OF WAYS. NO WORK SHALL BE PERFORMED WITHIN THESE AREAS UNTIL ASSOCIATED RIGHT OF ENTRY HAS BEEN SECURED. ADDITIONALLY, THIS PROJECT WILL NOT BE CONSIDERED COMPLETE UNTIL ALL RECORDED EASEMENT DOCUMENT NUMBERS HAVE BEEN OBTAINED AND SHOWN ON PLANS.
12. CONTRACTOR SHALL STAKE ALL PROPOSED SERVICE CONNECTIONS LOCATED WITHIN THE CRITICAL ROOT ZONE OF TREES 8" IN CALIPER AND LARGER AT LEAST 21 CALENDAR DAYS PRIOR TO CONSTRUCTION OF SUCH SERVICES. STAKING SHALL CONSIST OF A LATH WITH NAIL AND PAINT MARKINGS. IN CASES WHERE A STAKE CANNOT BE PLACED WITHOUT DAMAGING PROPERTY, CONTRACTOR MAY USE PAINT ONLY. ONCE STAKING IS COMPLETED, IT IS THE CONTRACTOR'S RESPONSIBILITY TO INFORM THE CITY OF AUSTIN'S CONSTRUCTION INSPECTOR WITHIN TWENTY-FOUR HOURS. THE CITY OF AUSTIN'S CONSTRUCTION INSPECTOR WILL THEN COORDINATE A FIELD REVIEW OF THE SERVICE LOCATIONS WITH THE GENERAL PERMIT PROGRAM COORDINATOR AND PROPERTY OWNERS. SERVICE LINE LOCATIONS MAY BE ADJUSTED BASED ON THE REVIEW AND WILL BE RESTAKED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT. ALL SERVICE LINE STAKING SHALL BE MAINTAINED UNTIL THE SERVICE IS INSTALLED.
13. NO FIRE HYDRANTS ARE TO BE INSTALLED WITH THIS PROJECT. THE SOLE PURPOSE OF FIRE HYDRANT DETAIL 511-AW-02 IN THIS PLAN SET IS TO PROVIDE REFERENCE TO THE VARIOUS CONNECTION OPTIONS TO THE MAIN AS REFERENCED IN 2" NON-TRAFFIC RATED RECLAIMED BLOW-OFF VALVE DETAIL 511-AW-06.

NOTES:
GENERAL PERMIT PROGRAM APPROVAL DOES NOT CONSTITUTE UTILITY ALIGNMENT/ASSIGNMENT APPROVAL.
RELEASE OF THIS APPLICATION DOES NOT CONSTITUTE A VERIFICATION OF ALL DATA, INFORMATION AND CALCULATIONS
SUPPLIED BY THE APPLICANT. THE ENGINEER OF RECORD IS SOLELY RESPONSIBLE FOR THE COMPLETENESS, ACCURACY,
AND ADEQUACY OF HIS/HER SUBMITTAL, WHETHER OR NOT THE APPLICATION IS REVIEWED FOR CODE COMPLIANCE BY CITY
ENGINEERS.

GENERAL PERMIT PROGRAM CORRECTIONS RECORD

FOR USE BY GENERAL PERMIT OFFICE ONLY

[illegible]

UCC-180607-01-01
AULCC NUMBER

SUBMITTAL PREPARED BY:



THE SEAL APPEARING ON THIS
DOCUMENT WAS AUTHORIZED BY
CHRISTOPHER J. EVANS
LIC. # 109857

I CERTIFY THAT THESE DRAWINGS ARE COMPLETE, ACCURATE AND ADEQUATE FOR THEIR INTENDED PURPOSES, INCLUDING CONSTRUCTION, BUT ARE NOT AUTHORIZED FOR CONSTRUCTION UNTIL FORMAL CITY APPROVAL.



ENGINEERING SERVICES
DIVISION

CITY OF AUSTIN
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES DIVISION
505 BARTON SPRINGS RD., STE. 900
AUSTIN, TEXAS 78704

CONTACT:
CHRISTOPHER J. EVANS, P.E.
PHONE: (512) 974-7048
EMAIL: christopher.evans@austintexas.gov

APPROVED BY GENERAL PERMIT HOLDER:

FOR GENERAL PERMIT HOLDER _____ DATE _____

GP-2019-0000.AW	03/29/2020
ANNUAL GENERAL PERMIT NUMBER	EXP. DATE

REVIEWED BY:

Brittany FOLLOM
AUSTIN WATER

1/15/2020
DATE

APPROVAL FOR SITE DEVELOPMENT PERMIT:

GENERAL PERMIT PROGRAM COORDINATOR
DEVELOPMENT SERVICES DEPARTMENT

DATE

GP-2019-____.AW
GENERAL PERMIT NUMBER DATE

SUBMITTAL DATE _____

G001	1 OF 24
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GENERAL PERMIT PROGRAM

UNION CREEK DISTRICT PARK RECLAIMED MAIN PHASE 2















































































































































































EVANS, CHRISTOPHER

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EXISTING FEATURES

	CENTERLINE		BRASS DISK FOUND		STORM DRAIN AREA INLET		COMMUNICATION PEDESTAL
	RIGHT OF WAY LINE		BRASS DISK SET		DRAINAGE ARROW		COMM. JUNCTION BOX
	PROPERTY LINE		BOLT FOUND		STORM DRAIN CURB INLET		COMMUNICATION MANHOLE
	EASEMENT LINE		BOLT SET		STORM DRAIN CLEANOUT		COMMUNICATION POLE
	FLOOD HAZARD ZONE 25 YEAR		BENCHMARK FOUND		STORM DRAIN GRATE INLET		COMMUNICATION VAULT
	FLOOD HAZARD ZONE 100 YEAR		BENCHMARK SET		STORM DRAIN HEADWALL		FIBER OPTIC MANHOLE
	CRITICAL WATER QUALITY ZONE		CALCULATED POINT		STORM DRAIN MANHOLE		FIBER OPTIC JUNCTION BOX
	TRANSITION WATER QUALITY ZONE		CONTROL POINT FOUND		STORM DRAIN WINGWALL		ELECTRIC ANCHOR
	DRAINAGE EDGE		CONTROL POINT SET		WASTEWATER AR VALVE		ELECTRIC JUNCTION BOX
	DRAINAGE CENTERLINE		COTTON SPINDLE FOUND		WWTR BACKFLOW PRVN.		ELECTRIC LIGHT POLE
	DITCH EDGE		COTTON SPINDLE SET		WASTEWATER CLEANOUT		ELECTRIC MANHOLE
	TIME OF CONCENTRATION		DRILL HOLE FOUND		WASTEWATER FLOW METER		ELECTRIC METER
	MAJOR CONTOURS		DRILL HOLE SET		WWTR LIFT STATION		ELECTRIC POLE
	MINOR CONTOURS		HUB & TACK FOUND		WASTEWATER MANHOLE		ELECTRIC PULL BOX
	PAVED ROAD EDGE		HUB & TACK SET		WASTEWATER METER		ELECTRIC VAULT
	PAVED PARKING / DRIVEWAY EDGE		IRON PIPE FOUND		WWTR SRVC. CONNECTION		ELECTRIC TOWER
	GRAVEL EDGE		IRON PIPE SET		WASTEWATER VAULT		CHILLED WATER MANHOLE
	CURB LINE		IRON ROD FOUND		WASTEWATER VALVE		CHILLED WATER VALVE
	BUILDING LINE		IRON ROD SET		WATER AF VALVE		NATURAL GAS LIGHT
	GUARDRAIL		MONUMENT FOUND		WATER AR VALVE AUTO		NATURAL GAS MANHOLE
	HANDRAIL		MONUMENT SET		WATER AR VALVE COMBO		NATURAL GAS METER
	CHAINLINK FENCE		MAGNAIL FOUND		WATER AR VALVE MANUAL		NATURAL GAS VALVE
	BARBWIRE FENCE		MAGNAIL SET		WATER BACKFLOW PREV.		NATURAL GAS VENT
	WOOD FENCE		PROPERTY PIN FOUND		WATER BOUNDARY VALVE		IRRG. CONTROL VALVE
	STEEL FENCE		PROPERTY PIN SET		WATER DRAINAGE VALVE		SPRINKLER CONTROL VALVE
	FENCE LINE		TEMP. BENCHMARK FOUND		WATER DRAINAGE MANHOLE		SPRINKLER HEAD
	STONE / ROCK WALL		TEMP. BENCHMARK SET		WATER FIRE CONNECTION		IRRIGATION HOSE BIB
	BRICK WALL		CROSS FOUND		WATER FIRE HYDRANT		RECLAIMED WATER MANH.
	TREE LINE		CROSS SET		WATER FLOW METER		RECLAIMED WATER METER
	COMMUNICATION OVERHEAD		BIKE RACK		WATER HANDHOLE		RECLAIMED WATER VALVE
	COMMUNICATION UNDERGROUND		BENCH		WATER HYD. PRS. RLS. VLV.		TRAFFIC SIGNAL MANHOLE
	FIBER OPTIC OVERHEAD		BUS STOP		WATER METER		TRAF. SIGNAL CONTROL BOX
	FIBER OPTIC UNDERGROUND		GARBAGE CAN		WATER MONITOR WELL		TRAFFIC SIGNAL PULL BOX
	TRAFFIC SIGNAL OVERHEAD		GUARDRAIL POST		WATR / WWTR PLUG		TRAF. SIGNAL / PED SIGNAL
	TRAFFIC SIGNAL UNDERGROUND		MAILBOX		WATR / WWTR PROJ. SEP.		TRAF. SIGNAL LIGHT & SIGN.
	ELECTRIC OVERHEAD		PARKING METER		WATER PRS. RLS. VALVE		TRAF. SIGNAL SIGN. EXTEND.
	ELECTRIC UNDERGROUND		SIGN		WATER PRS. SUST. VALVE		
	CHILLED WATER LINE		MANHOLE UNKNOWN		WATR / WWTR REDUCER		
	CHILLED WATER ABANDONED		TEST PIT		WATER SRVC. CONNECTION		
	NATURAL GAS LINE		BORE HOLE		WATER SHUTOFF VALVE		
	NATURAL GAS ABANDONED		RAILROAD SIGNAL		WATER VAULT		
	RECLAIMED WATER LINE		SHRUB		WATER VALVE		
	RECLAIMED WATER ABANDONED		TREE		WATER VAC. RLS. VALVE		
	IRRIGATION LINE				WATER WELL		
	IRRIGATION ABANDONED						
	STORM DRAIN LINE						
	STORM DRAIN ABANDONED						
	WATER LINE						
	WATER ABANDONED						
	WASTEWATER LINE						
	FORCE MAIN LINE						
	WASTEWATER ABANDONED						
	FORCE MAIN ABANDONED						

PROPOSED FEATURES

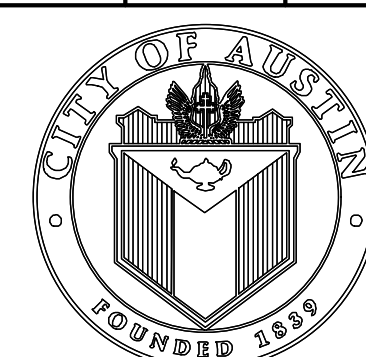
	CENTERLINE		IRRIGATION LINE		COMMUNICATION PEDESTAL
	RIGHT OF WAY LINE		IRRIGATION TO ABANDON		COMM. JUNCTION BOX
	PROPERTY LINE		IRRIGATION DEMOLITION		COMMUNICATION MANHOLE
	EASEMENT LINE		STORM DRAIN LINE		COMMUNICATION POLE
	FLOOD HAZARD ZONE 25 YEAR		STORM DRAIN TO ABANDON		COMMUNICATION VAULT
	FLOOD HAZARD ZONE 100 YEAR		STORM DRAIN DEMOLITION		FIBER OPTIC MANHOLE
	CRITICAL WATER QUALITY ZONE		PERFORATED DRAIN		FIBER OPTIC JUNCTION BOX
	TRANSITION WATER QUALITY ZONE		WATER LINE		ELECTRIC ANCHOR
	DRAINAGE EDGE		WATER TO ABANDON		ELECTRIC JUNCTION BOX
	DRAINAGE CENTERLINE		WATER DEMOLITION		ELECTRIC LIGHT POLE
	DITCH EDGE		WASTEWATER LINE		ELECTRIC MANHOLE
	TIME OF CONCENTRATION		FORCE MAIN LINE		ELECTRIC METER
	MAJOR CONTOURS		WASTEWATER TO ABANDON		ELECTRIC POLE
	MINOR CONTOURS		FORCE MAIN TO ABANDON		ELECTRIC PULL BOX
	PAVED ROAD EDGE		WASTEWATER DEMOLITION		ELECTRIC VAULT
	PAVED PARKING / DRIVEWAY EDGE		FORCE MAIN DEMOLITION		ELECTRIC TOWER
	GRAVEL EDGE				CHILLED WATER MANHOLE
	PAVED ROAD DEMOLITION				CHILLED WATER VALVE
	PAVED PARKING DEMOLITION				NATURAL GAS LIGHT
	CURB LINE				NATURAL GAS MANHOLE
	CURB LINE DEMOLITION				NATURAL GAS METER
	BUILDING LINE				NATURAL GAS VALVE
	GUARDRAIL				NATURAL GAS VENT
	GUARDRAIL DEMOLITION				IRRG. CONTROL VALVE
	HANDRAIL				SPRINKLER CONTROL VALVE
	HANDRAIL DEMOLITION				SPRINKLER HEAD
	CHAINLINK FENCE				IRRIGATION HOSE BIB
	STEEL FENCE				TRAFFIC SIGNAL MANHOLE
	FENCE DEMOLITION (GENERIC)				TRAF. SIGNAL CONTROL BOX
	STONE / ROCK WALL				TRAFFIC SIGNAL PULL BOX
	BRICK WALL				TRAF. SIGNAL / PED SIGNAL
	TRAFFIC CONE LINE				TRAF. SIGNAL LIGHT & SIGN
	TRANSVERSE JOINT				TRAF. SIGNAL SIGN. EXTEND
	LONGITUDINAL JOINT				
	EROSION ROCK BERM				
	EROSION DIVERSION DIKE				
	EROSION MULCH SOCK				
	EROSION SILT FENCE				
	EROSION TRI-FILTER DIKE				
	EROSION TREE PROTECTION				
	LIMITS OF CONSTRUCTION				
	COMMUNICATION OVERHEAD				
	COMMUNICATION UNDERGROUND				
	COMMUNICATION DEMOLITION				
	TRAFFIC SIGNAL OVERHEAD				
	TRAFFIC SIGNAL UNDERGROUND				
	TRAFFIC SIGNAL DEMOLITION				
	ELECTRIC OVERHEAD				
	ELECTRIC UNDERGROUND				
	ELECTRIC DEMOLITION				
	CHILLED WATER LINE				
	CHILLED WATER TO ABANDON				
	CHILLED WATER DEMOLITION				
	RECLAIMED WATER LINE				
	RECLAIMED WATER TO ABANDON				
	RECLAIMED WATER DEMOLITION				

[illegible]

THE SEAL APPEARING ON THIS
DOCUMENT WAS AUTHORIZED BY
CHRISTOPHER J. EVANS
LIC. # 109857

I CERTIFY THAT THESE DRAWINGS ARE
COMPLETE, ACCURATE AND ADEQUATE
FOR THEIR INTENDED PURPOSES
INCLUDING CONSTRUCTION, BUT ARE NOT
AUTHORIZED FOR CONSTRUCTION UNTIL
FORMAL CITY APPROVAL.

CITY OF AUSTIN, TEXAS DEPARTMENT OF PUBLIC WORKS ENGINEERING SERVICES DIVISION
ONION CREEK DISTRICT PARK RECLAIMED MAIN PHASE 2
LEGEND SHEET



NOTES	NAME	DATE
SURVEY BY	QMD	03/2018
DRAWN BY	CE	05/2019
DESIGNED BY	CE	05/2019
CHECKED BY	BA	05/2019
REVIEWED BY	ESD	05/2019



ENGINEERING SERVICES
DIVISION

GP-2019-____.AWU

G003	3 OF 24
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#	
1S	SINGLE SERVICE
2S	DOUBLE SERVICE
A	
ABAN	ABANDON
ABLT	AS-BUILT
AATUR	ABANDONED ACCORDING TO UTILITY RECORDS
AC	ASBESTOS CEMENT
AC.	ACRE
ACC	ACCESSIBLE
AFV	AIR FLUSH VALVE
AGGR	AGGREGATE
ALGN	ALIGNMENT
APD	APPROVED
APP	APPROXIMATE
APPX	APPENDIX
AR	AS REQUIRED
ARCH	ARCHITECT
ASPH	ASPHALT
ASSY	ASSEMBLY
ATCH	ATTACHMENT
ATTN	ATTENTION
AUTO	AUTOMATIC
AUX	AUXILIARY
AV	AIR VENT
ARV	AIR RELEASE VALVE AUTO
ARVC	AIR RELEASE VALVE COMBO
ARVM	AIR RELEASE VALVE MANUAL
AW	AUSTIN WATER UTILITY

B	
BGN	BEGIN (BEGINNING)
BC	BACK OF CURB
BCV	BUTTERFLY CHECK VALVE
BDNG	BEDDING
BDRY	BOUNDARY
BFV	BUTTERFLY VALVE
BFP	BACKFLOW PREVENTER
BLDG	BUILDING
BLIN	BASELINE
BLKT	BLANKET
BILT	BUILT
BLW	BELOW
BMRK	BENCHMARK
BOT	BOTTOM
BRG	BEARING
BTWN	BETWEEN
BWIR	BARBWIRE

C	COMMUNICATION
CATV	CABLE TELEVISION
C CONC	CAST CONCRETE
C-C	CENTER TO CENTER
CD	CONSTRUCTION DOCUMENT
CG	CURB & GUTTER
CF	CUBIC FEET
CFS	CUBIC FEET PER SECOND
CHK	CHECK POINT
CI	CAST IRON
CIP	CAPITAL IMPROVEMENT PROJECT
C.I.P.	CAST-IN-PLACE
CJ	CONTROL JOINT
CL	CENTERLINE
CLNK	CHAINLINK
CLR	CLEAR
CLS	CLASSIFICATION
CMP	CORRUGATED METAL PIPE
CNTR	CENTER
CO	CONDUIT
COCC	CENCRIC
COJB	COMMUNICATION JUNCTION BOX
COL	COL UMN
COA	CITY OF AUSTIN
CONC	CONCRETE
COND	CONDUIT
COMM	COMMUNICATION
COMH	COMMUNICATION MANHOLE
CONN	CONNECT
CONT	CONTINUED
COPD	COMMUNICATION PED
COORD	COORDINATE
COVR	COVER
COVT	COMMUNICATION VAULT
CPLG	COUPLING
CPP	CORRUGATED PLASTIC PIPE
CRZ	CRITICAL ROOT ZONE
CSC	CONCRETE STEEL CYLINDER
CSG	CASING
CTB	CONCRETE TRAFFIC BARRIER
CTRL	CONTROL
CUR	CURRENT
CT	CLAY TILE
CV	CONTROL VALVE
CYL	CYLINDER
CW	CHILLED WATER
CWL	CHILLED WATER LINE
CWMH	CHILLED WATER MANHOLE
CWOZ	CRITICAL WATER QUALITY ZONE
CWR	CHILLED WATER RETURN
CWS	CHILLED WATER SUPPLY
CWTR	CHILLED WATER
CWV	CHILLED WATER VALVE
CWVT	CHILLED WATER VAULT
CY	CUBIC YARD

D	DEPTH
DB	DUCT BANK
DD	DISEMBLED
DA	DRAINAGE AREA
DAT	DATUM
DEFL	DEFLECTION
DEG	DEGREE
DEMO	DEMOLITION
DEPT	DEPARTMENT
DETL	DETAIL
DETN	DETENTION
DEV	DEVELOPMENT
DI	DUCTILE IRON PIPE
DIA	DIAMETER
DIAG	DIAGRAM
DIFF	DIFFERENCE
DIMM	DIMENSION
DIR	DIRECTION
DISC	DISCONNECT
DISCH	DISCHARGE
DIST	DISTANCE
DIV	DIVISION
DOC	DOCUMENT
DR	DRAIN
DRNG	DRAINAGE
DRV	DRIVEWAY
DSBL	DISEMBLED
DOBL	DOUBLE
DSGN	DESIGN
DSPL	DISPOSAL
DTCH	DETACH
DUCT	DUCT BANK
DUPL	DUPLICATE
DWG	DRAWING

E	EAST / ELECTRIC
E/A	ENGINEER/ARCHITECT
E/S	EROSION / SEDIMENTATION
EA.	EACH
EA	EDGE OF ASPHALT
EC	EDGE OF CONCRETE
ECC	ECCENTRIC
EFF	EFFECTIVE
EG	EDGE OF GRAVEL
EJ	EXPANSION JOINT
EL	ELEVATION
EL/EC	ELECTRIC
ELJB	ELECTRIC JUNCTION BOX
ELMH	ELECTRIC MANHOLE
ELMT	ELECTRIC METER
ELVT	ELECTRIC VAULT
ENGR	ENGINEER
ENTR	ENTRANCE
ENVIR	ENVIRONMENT
EP	EDGE OF PAVEMENT
EQ	EQUAL
EQUIV	EQUIVALENT
EROS	EROSION
ES	EDGE OF SHOULDER
ESC	EROSION AND SEDIMENTATION CONTROL
ESD	ENGINEERING SERVICES DIVISION
ESMT	EASEMENT LINE
EST	ESTIMATE
ETC	ETCETERA
EX.	EXISTING
EXC	EXCAVATE
EXP	EXPANSION
EXTN	EXTENSION

F	
F-F	FACE TO FACE
FEC	FACE OF CONCRETE / CURB
FDBK	FEEDBACK
FDC	FIRE DEPARTMENT CONNECTION
FDU	FUNDING DEPARTMENT UNIT
FENC	FENCE
FEAT	FEATURE
FF	FINISHED FLOOR
FIBR	FIBER OPTIC
FG	FINISH GRADE
FH	FIRE HYDRANT
FIGR	FIGURE
FL	FLOWLINE
FLHA	FLOOD HAZARD AREA
FLRD	FLARED
FM	FORCEMAIN
FN	FENCE
FO	FIBER OPTIC
FOMH	FIBER OPTIC MANHOLE
FOVT	FIBER OPTIC VAULT
FP	FLOODPLAIN
FT	FEET
FTNG	FOOTING
FURN	FURNISH
FUTR	FUTURE
FW	FIRE WATER LINE

G	
G	NATURAL GAS
GAL	GALLON
GB	GRADE BREAK
GEN	GENERAL
GPM	GALLONS PER MINUTE
GRAL	GUARDRAIL
GRLN	GRADE LINE
GRDN	GARDEN
GRND	GROUND
GS	NATURAL GAS SERVICE
GSL	NATURAL GAS LINE
GSMH	NATURAL GAS MANHOLE
GSMT	NATURAL GAS METER
GSV	NATURAL GAS VALVE
GSVT	NATURAL GAS VAULT
GV	GATE VALVE

H	
HA	HECTARE
HAZD	HAZARD
HCP	HANDICAPPED
HDTY	HEAVY DUTY
HDWL	HEADWALL
HDPE	HIGH DENSITY POLYETHYLENE
HGL	HYDRAULIC GRADE LINE
HH	HANDHOLE
HORZ	HORIZONTAL
HP	HIGH PRESSURE, HIGH POINT
HT	HEIGHT
HYDR	HYDRAULIC

IGCV	IRRIGATION CONTROL VALVE
IGHB	IRRIGATION HOSE BIB
IMPV	IMPERVIOUS
IN	INCHES
IP	INLET PROTECTION/IRON PIN
IR	IRRIGATION
IRRG	IRRIGATION

J
JUNCT JUNCTION

L	
L	LENGTH
LBS	POUNDS
LDTY	LIGHT-DUTY
LF	LINEAR FEET
LOC	LIMIT OF CONSTRUCTION
LG	LIP OF GUTTER
LS	LUMP SUM
LT	LEFT

M		TSMH	TRAFFIC SIGNAL MANHOLE
MANH	MANHOLE	TSVT	TRAFFIC SIGNAL VAULT
MAX	MAXIMUM	TV	CATV
METER	METER	TVMH	CATV MANHOLE
MH	MANHOLE	TVVT	CATV VAULT
MIN.	MINIMUM	TXDOT	TEXAS DEPARTMENT OF TRANSPORTATION
MJ	MECHANICAL JOINT	TYP	TYPICAL
MM	MILLIMETER		
MPH	MILES PER HOUR	U	
MS	MULCH SOCK	UG	UNDERGROUND

N	
N	NORTH
N/A	NOT APPLICABLE
NE	NORTH EAST
NG	NATURAL GROUND
NGAS	NATURAL GAS
NPWR	RECLAIMED WATER
NTS	NOT TO SCALE

O	
OC	ON CENTER
OH	OVERHEAD
OVHD	OVERHEAD

P	
PC	POINT OF CURVATURE
P.C.	PRE-CAST
P.E.	PROFESSIONAL ENGINEER
PI	POINT OF INTERSECTION
PCC	POINT COMPOUND CURVE
PE	POLYETHYLENE
PET	PETROLEUM
PERV	PERVIOUS
PG.	PAGE
PI.	PLASTICITY INDEX
PL	PROPERTY LINE
PR.	PROPOSED
PRV	PRESSURE REDUCING VALVE
	POUNDS PER SQUARE INCH
PSV	PRESSURE SUSTAINING VALVE
PT	POINT OF TANGENCY
PUE	PUBLIC UTILITY ASSESSMENT
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
PWD	PUBLIC WORKS DEPARTMENT

Q
QNTY QUANTITY

R	
RB	RECLAIMED WATER
RCP	ROCK BERM
RDC	REINFORCED CONCRETE PIPE
REF	REDUCER
ROW	REFERENCE
RR	RIGHT OF WAY
RRAP	RAILROAD
RT	RIP-RAP
RWL	RIGHT
RWMH	RECLAIMED WATER LINE
RWV	RECLAIMED WATER MANHOLE
RWVT	RECLAIMED WATER VALVE
	RECLAIMED WATER VAULT

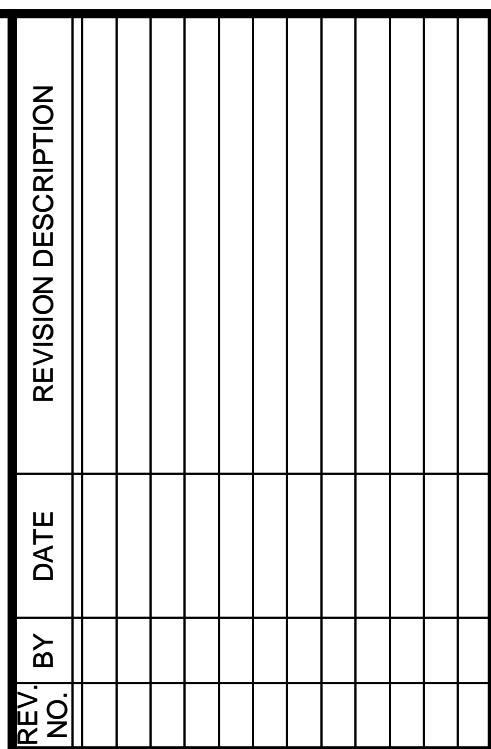
S	
S	SOUTH
SCE	STABILIZED CONSTRUCTION ENTRANCE
SD	STORM DRAIN
SDAI	STORM DRAIN AREA INLET
SDCI	STORM DRAIN CURB INLET
SDCO	STORM DRAIN CLEANOUT
SDDI	STORM DRAIN INLET
SDHW	STORM DRAIN HEAD WALL
SDR	STANDARD DIMENSION RATIO
SDL	STORM DRAIN LINE
SDVT	STORM DRAIN VAULT
SE	SOUTH EAST
SF	SQUARE FEET
SFN	SILT FENCE
SH	SHEET
SHLN	SHRUB LINE
SL	SPRINKLER LINE
SP	SITE PLAN
SRVC	SERVICE
SSD	STOPPING SIGHT DISTANCE
STBK	STEELBACK
STD	STANDARD
STRM	STORM DRAIN
SW	SOUTH WEST
SWK	SIDEWALK
SWV	SWIVEL
SY	SQUARE YARD

T	
TBA	TO BE ABANDONED
TBR	TO BE REMOVED
TC	TOP OF CURB ELEVATION
TFD	TRI-FILTER DIKE
T.O.C.	TABLE OF CONTENTS
TOC	TIME OF CONCENTRATION
TRLN	TREE LINE
TRPR	TREE PROTECTION
TS	TRAFFIC SIGNAL
TSMH	TRAFFIC SIGNAL MANHOLE
TSVT	TRAFFIC SIGNAL VAULT
TV	CATV
TMVH	CATV MANHOLE
TVVT	CATV VAULT
TXDOT	TEXAS DEPARTMENT OF TRANSPORTATION
TYP	TYPICAL

U	
UG	UNDERGROUND
UNDR	UNDERGROUND
UNK	UNKNOWN

V	
VCP	VITRIFIED CLAY PIPE
VOL	VOLUME
VPC	VERTICAL POINT OF CURVATURE
VPI	VERTICAL POINT OF INTERSECTION
VPT	VERTICAL POINT OF TANGENCY

W	
W	WATER
WATR	WATER
WAMH	WATER MANHOLE
WAHH	WATER HANDHOLE
WASC	WATER SERVICE CONNECTION
WAVT	WATER VAULT
WL	WATER LINE
WQTZ	WATER QUALITY TRANSITION ZONE
WW	WASTEWATER
WWCO	WASTEWATER CLEANOUT
WWR	WASTEWATER
WWL	WASTEWATER LINE
WWLS	WASTEWATER LIFT STATION
WWO	WASTEWATER OVERFLOW
WWMH	WASTEWATER MANHOLE
WWSC	WASTEWATER SERVICE CONNECTION
WWVT	WASTEWATER VAULT



THE SEAL APPEARING ON THIS
DOCUMENT WAS AUTHORIZED BY
CHRISTOPHER J. EVANS
LIC. # 109857

I CERTIFY THAT THESE DRAWINGS ARE
COMPLETE, ACCURATE AND ADEQUATE
FOR THEIR INTENDED PURPOSES,
INCLUDING CONSTRUCTION, BUT ARE NOT
AUTHORIZED FOR CONSTRUCTION UNTIL
FORMAL CITY APPROVAL.

CITY OF AUSTIN, TEXAS
 DEPARTMENT OF PUBLIC WORKS
 ENGINEERING SERVICES DIVISION
 UNION CREEK DISTRICT PARK
 RECLAIMED MAIN PHASE 2
 ABBREVIATIONS SHEET

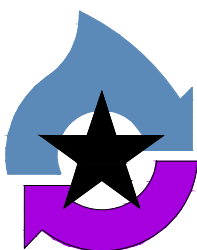


NOTES	NAME	DATE
SURVEY BY	QMD	03/2018
DRAWN BY	CE	05/2019
DESIGNED BY	CE	05/2019
CHECKED BY	BA	05/2019
REVIEWED BY	ESD	05/2019



GP-2019-____.AWU

G004	4 OF 24
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CITY OF AUSTIN
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES DIVISION

GENERAL CONSTRUCTION NOTES:

1. THE PROJECT MANUAL CONTAINS IMPORTANT INFORMATION THAT IS NOT REPEATED IN THE PLAN SET. THE CONTRACTOR SHALL KEEP THE PROJECT MANUAL ON SITE AND IMMEDIATELY AVAILABLE TO THOSE PERSONS PERFORMING THE WORK. UPON REQUEST, THE CONTRACTOR SHALL PRESENT THIS COPY OF THE PROJECT MANUAL TO THE CONSTRUCTION INSPECTOR, ENGINEER OR PROJECT MANAGER.

2. THE CONTRACTOR WILL NOTIFY THE OWNER'S REPRESENTATIVE FORTY-EIGHT (48) HOURS IN ADVANCE OF BEGINNING ANY CONSTRUCTION IN THE RIGHT OF WAY OR EASEMENTS.

3. CONTRACTOR AND SUB-CONTRACTORS MUST BE LICENSED BY THE CITY OF AUSTIN FOR CONDUCTING WORK WITHIN THE STREET RIGHT OF WAY, ALLEYS, OR EASEMENTS.

4. CONTRACTOR MUST OBTAIN A STREET CUT PERMIT FROM AUSTIN TRANSPORTATION DEPARTMENT, RIGHT OF WAY MANAGEMENT DIVISION BEFORE BEGINNING CONSTRUCTION WITHIN THE RIGHT-OF-WAY OF A PUBLIC STREET OR ALLEY.

5. PRE-CONSTRUCTION MEETINGS: THERE ARE TWO ENTITIES THAT HOLD PRE-CONSTRUCTION MEETINGS. THESE MEETINGS TYPICALLY DO NOT OCCUR AT THE SAME TIME. FOR PRE-CONSTRUCTION MEETING HELD BY CONSTRUCTION INSPECTION DIVISION, SEE PROJECT MANUAL SECTION 01200; FOR ENVIRONMENTAL PRE-CONSTRUCTION MEETING, SEE ENVIRONMENTAL NOTES.

6. THE CONTRACTOR SHALL NOTIFY EACH OF THE FOLLOWING ENTITIES OF THE CONSTRUCTION SCHEDULE AT LEAST TWO WEEKS IN ADVANCE OF PROPOSED CONSTRUCTION OPERATIONS AND PROVIDE PERTINENT INFORMATION ABOUT LANE CLOSURES AND DETOURS.

AUSTIN FIRE DEPARTMENT.....	512-974-0130
AUSTIN POLICE DEPARTMENT.....	512-974-5000
EMERGENCY MEDICAL SERVICES.....	512-978-0440
AUSTIN INDEPENDENT SCHOOL DISTRICT.....	512-414-9832
CAPITAL METRO TRANSIT AUTHORITY.....	512-389-7400
U.S. POSTAL SERVICE.....	512-342-1236
UNIVERSITY OF TEXAS	
(Facilities Services).....	512-471-4110
(Parking and Trans).....	512-471-7275
(Utilities and Energy Mgmt).....	512-471-1600
(University Police).....	512-471-4441
(Project Mgmt & Const. Svcs).....	512-471-3042
STATE OF TEXAS	
DPS TEXAS HWY PATROL (Region 7 Austin Capitol).....	512-463-3473

7. THE INFORMATION SHOWN ON THESE DRAWINGS INDICATING TYPE AND LOCATION OF SURFACE, SUBSURFACE, AND AERIAL UTILITIES IS NOT GUARANTEED TO BE EXACT OR COMPLETE. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXACT TYPE AND LOCATION OF ALL UTILITIES AFFECTED BY THE CONSTRUCTION IN ORDER TO AVOID DAMAGING THOSE UTILITIES.

8. THE CONTRACTOR SHALL COORDINATE WITH OTHER CONTRACTORS AND UTILITIES IN THE VICINITY OF THIS PROJECT. THIS INCLUDES, BUT IS NOT LIMITED TO, GAS, WATER, WASTEWATER ELECTRIC, TELEPHONE, CABLE TELEVISION, PETROLEUM PIPELINES, FIBER OPTIC, STREET, DRAINAGE, AND ANY OTHER WORK OCCURRING IN OR NEAR THE PROJECT SITE. ONCE THE CONTRACTOR BECOMES AWARE OF A POSSIBLE CONFLICT, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY, BUT NO LATER THAN TWENTY-FOUR (24) HOURS AFTER DISCOVERY.

9. SHOULD THE CONTRACTOR DAMAGE A UTILITY DURING THE COURSE OF THE WORK, THE CONTRACTOR SHALL IMMEDIATELY ARRANGE FOR REPAIR AND RESTORATION OF THE DAMAGED UTILITY. THE EXPENSE FOR THESE REPAIRS WILL BE AT THE CONTRACTOR'S SOLE EXPENSE.

10. ALL EXISTING STRUCTURES, FACILITIES, AND UTILITIES DAMAGED BY CONSTRUCTION SHALL BE REMOVED AND RESTORED WITH MATERIALS EQUAL TO OR BETTER THAN THE ORIGINAL AND TO CONDITIONS EQUAL TO OR BETTER THAN THE ORIGINAL. UNLESS OTHERWISE NOTED IN THE PLANS, THIS WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT SHALL BE AT THE CONTRACTOR'S SOLE EXPENSE.

11. SLOPES OF ROADWAY CUTS AND EMBANKMENTS DAMAGED BY ANY OPERATION OF THE CONTRACTOR DURING THE EXECUTION OF THIS PROJECT SHALL BE REPAIRED AND RESTORED TO THE ORIGINAL PRE-CONSTRUCTION CONDITION. BACKFILL AND FILL PLACED DURING REMEDIAL GRADING SHALL BE COMPACTED TO AT LEAST 95% COMPACTION AND TO THE SATISFACTION OF THE ENGINEER AND GOVERNING AUTHORITIES.

12. GEOTECHNICAL INFORMATION IS PROVIDED IN THE PROJECT MANUAL SECTION 00220.

13. SEE PROJECT MANUAL SECTION 01300 FOR RECORD DRAWINGS INFORMATION.

AUSTIN WATER GENERAL CONSTRUCTION NOTES (11/23/2017):

1. THE CITY STANDARD CONSTRUCTION SPECIFICATIONS CURRENT AT THE TIME OF BIDDING SHALL COVER MATERIALS AND METHODS USED TO DO THIS WORK.

2. CONTRACTOR MUST OBTAIN A STREET CUT PERMIT FROM AUSTIN TRANSPORTATION DEPARTMENT, RIGHT OF WAY MANAGEMENT DIVISION BEFORE BEGINNING CONSTRUCTION WITHIN THE RIGHT-OF-WAY OF A PUBLIC STREET OR ALLEY.

3. AT LEAST 48 HOURS BEFORE BEGINNING ANY WATER AND WASTEWATER CONSTRUCTION IN PUBLIC R.O.W. OR PUBLIC EASEMENT, THE CONTRACTOR SHALL NOTIFY AUSTIN TRANSPORTATION DEPARTMENT INSPECTION OR DEVELOPMENT SERVICES DEPARTMENT (DSD) INSPECTIONS AT THE NUMBER INDICATED ON THE PLANS BY THE AW PLAN REVIEWER.

4. THE CONTRACTOR SHALL CONTACT THE AUSTIN AREA "ONE CALL" SYSTEM AT 1-800-344-8377 FOR EXISTING UTILITY LOCATIONS PRIOR TO ANY EXCAVATION IN ADVANCE OF CONSTRUCTION. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES TO BE EXTENDED, TIED TO, OR ALTERED, OR SUBJECT TO DAMAGE / INCONVENIENCE BY THE CONSTRUCTION OPERATIONS. THE CITY OF AUSTIN WATER AND WASTEWATER MAINTENANCE RESPONSIBILITY ENDS AT R.O.W./EASEMENT LINES.

5. NO OTHER UTILITY SERVICE / APPURTENANCES SHALL BE PLACED NEAR THE PROPERTY LINE, OR OTHER ASSIGNED LOCATION DESIGNATED FOR WATER AND WASTEWATER UTILITY SERVICE THAT WOULD INTERFERE WITH THE WATER AND WASTEWATER SERVICES.

6. THE CITY SPECIFICATION ITEM 509S WILL BE REQUIRED AS A MINIMUM TRENCH SAFETY MEASURE.

7. ALL MATERIALS TESTS ORDERED BY THE OWNER FOR QUALITY ASSURANCE PURPOSES, SHALL BE CONDUCTED BY AN INDEPENDENT LABORATORY AND FUNDED BY THE OWNER IN ACCORDANCE WITH CITY STANDARD SPECIFICATION ITEM 1804S.04.

8. PRESSURE TAPS SHALL BE ALLOWED ON A CASE BY CASE BASIS, AS DETERMINED BY THE DIRECTOR'S DESIGNEE. NORMAL PRESSURE TAPS 4 INCHES AND LARGER SHALL BE ALLOWED IN THE FOLLOWING CASES: A) A TEST SHUT OUT INDICATES AN ADEQUATE SHUTOUT TO PERFORM THE WORK IS NOT FEASIBLE B) MORE THAN 30 CUSTOMERS OR A SINGLE CRITICAL CUSTOMER (AS DEFINED BY AUSTIN WATER) WOULD BE IMPACTED BY THE SHUT OUT OR C) THE EXISTING WATER LINE WARRANTS IT.

9. THRUST RESTRAINT SHALL BE IN ACCORDANCE WITH CITY STANDARD SPECIFICATION ITEM 510.3(22)(b) AND SPL WW 27-A AND WW 27-F. NO CONCRETE THRUST RESTRAINT ALLOWED.

10. FIRE HYDRANTS SHALL BE SET IN ACCORDANCE WITH CITY STANDARD SPECIFICATION ITEM 511S.4 AND SHALL BE PAINTED FLYNT ALUMINUM OR EQUAL. FIRE HYDRANTS AND ASSOCIATED VALVES, TEN (10) YEARS OR OLDER WILL BE REQUIRED TO BE REPLACED WITH A NEW FIRE HYDRANT AND APPURTENANCES.

11. WATER LINE TESTING AND STERILIZATION SHALL BE PERFORMED IN ACCORDANCE WITH CITY STANDARD SPECIFICATION ITEMS 510.3 (27)-(29). FORCE MAIN PRESSURE TESTING SHALL BE CONDUCTED AND FALL UNDER THE SPECIFICATIONS AS WATER LINES (PRESSURE PIPE) OR AT THE PRESSURES SHOWN ON THE APPROVED PLANS.

12. ALL MATERIAL USED ON THIS PROJECT MUST BE LISTED ON THE STANDARD PRODUCTS LISTING. ANY MATERIAL NOT LISTED HAS TO GO THROUGH THE REVIEW OF THE STANDARDS COMMITTEE FOR REVIEW AND APPROVAL PRIOR TO START OF PROJECT. TESTING AND EVALUATION OF PRODUCTS ARE REQUIRED BEFORE APPROVAL WILL BE GIVEN ANY CONSIDERATION.

13. WHEN WATER SERVICES ARE DAMAGED AND THE SERVICE MATERIAL IS PE, THE LINE SHALL BE REPAIRED ONLY BY HEAT FUSION WELD OR REPLACED THE FULL LENGTH WITH TYPE K COPPER MATERIAL. ANY TIME PB IS DAMAGED OR TAMPERED WITH IN ANY WAY, THE SERVICE LINE SHALL BE REPLACED FULL LENGTH WITH TYPE K COPPER MATERIAL. NOTE: FULL LENGTH IS FROM CORPORATION STOP TO METER.

14. WHEN AN EXISTING WATERLINE SHUT OUT IS NECESSARY AND POSSIBLE, THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION INSPECTOR WHO WILL THEN NOTIFY THE AUSTIN WATER DISPATCH AND THE AFFECTED CUSTOMERS A MINIMUM OF SEVENTY-TWO (72) HOURS IN ADVANCE.

15. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION INSPECTOR SO THAT HE CAN NOTIFY THE AUSTIN WATER AT 972-0000 AT A MINIMUM OF 72 HOURS PRIOR TO RELOCATING ANY DOMESTIC OR FIRE DEMAND WATER METERS. THE CONTRACTOR SHALL CAREFULLY REMOVE ALL METERS AND METERS BOXES THAT ARE INDICATED TO BE RELOCATED OR SALVAGED. THE CONTRACTOR SHALL INSTALL THE REMOVED METER OR CITY PROVIDED METER AT THE NEW LOCATION INDICATED ON THE CONSTRUCTION PLANS.

16. WATER AND WASTE WATER SERVICES WILL NEED TO BE REPLACED UP TO THE MAIN. REPAIR COUPLINGS ARE NOT ALLOWED ON NEW INSTALLATIONS.

17. ALL MANHOLES IN UNPAVED AREAS PROVIDING DIRECT ACCESS TO A WASTEWATER LINE SHALL BE WATERTIGHT AND BEAR THE WORDING AND INSIGNIA FOR THE CITY OF AUSTIN.

18. THE CONTRACTOR SHALL VERIFY ALL VERTICAL AND HORIZONTAL LOCATIONS OF EXISTING UTILITIES PRIOR TO STARTING ON-SITE UTILITY WORK.

19. ALL WATER AND WASTEWATER MAINS SHALL BE INSTALLED IN ACCORDANCE WITH THE SEPARATION DISTANCES INDICATED IN CHAPTER 290 - DRINKING WATER STANDARDS, CHAPTER 217 - DESIGN CRITERIA FOR SEWERAGE SYSTEMS AND CHAPTER 210 - DESIGN CRITERIA FOR RECLAIMED SYSTEMS OF TCEQ RULES.

20. CONTRACTOR'S PERSONNEL THAT PERFORM BUTT FUSION AND ELECTROFUSION ON OR TO HDPE PIPE AND FITTINGS MUST HAVE CURRENT QUALIFICATION TRAINING CERTIFICATE ISSUED BY MCELROY OR COMPARABLE TRAINING PROGRAM.

21. SHOP DRAWINGS SIGNED AND SEALED BY A PROFESSIONAL STRUCTURAL ENGINEER, REGISTERED IN THE STATES OF TEXAS, SHALL BE SUBMITTED FOR AUSTIN WATER APPROVAL FOR LARGE DIAMETER PRE-CAST MANHOLES, JUNCTION BOXES, WET WELLS, AND SIMILAR STRUCTURES. THE SHOP DRAWINGS SHALL INCLUDE FLOWLINE ELEVATIONS OF ALL INCOMING AND OUTGOING PIPES, ELEVATION OF TRANSITION FROM LARGE DIAMETER SECTION TO 48" ID SECTION, TOP OF MANHOLE ELEVATION, SURROUNDING GROUND ELEVATION, AS WELL AS SPECIAL CONSTRUCTION CONSIDERATIONS THAT ARE SPECIFIED IN CONTRACT DRAWINGS.

22. VALVE STEM EXTENSIONS SHALL CONSIST OF A SINGLE PIECE OF IRON ROD OF THE REQUIRED LENGTH WITH A SOCKET ON ONE END AND NUT ON THE OTHER.

23. ALL POTABLE WATER SYSTEM COMPONENTS INSTALLED AFTER JANUARY 4, 2014, SHALL BE ESSENTIALLY "LEAD FREE" ACCORDING TO THE US SAFE DRINKING WATER ACT. EXAMPLES ARE VALVES (CORPORATION STOP, CURB STOP, AND PRESSURE REDUCING), NIPPLES, BUSHINGS, PIPE, FITTINGS, BACKFLOW PREVENTERS AND FIRE HYDRANTS. TAPPING SADDLES AND 2 INCH AND LARGER GATE VALVES ARE THE ONLY COMPONENTS EXEMPT FROM THIS REQUIREMENT. COMPONENTS THAT ARE NOT CLEARLY IDENTIFIED BY THE MANUFACTURER AS MEETING THIS REQUIREMENT EITHER BY MARKINGS ON THE COMPONENT OR ON THE PACKAGING SHALL NOT BE INSTALLED.

24. ALL FIRE HYDRANTS AND VALVES THAT ARE TO BE ABANDONED SHALL BE REMOVED, SALVAGED AND RETURNED TO AUSTIN WATER. NOTICE SHOULD BE GIVEN 48 HOURS PRIOR TO RETURN TO: PIPELINE OPERATIONS DISTRIBUTION SYSTEM MAINTENANCE, VALVES AND HYDRANT SERVICES, SUPERVISING AW PIPELINE TECHNICIAN AT 512-972-1133.

25. ALL EXISTING WATER METERS IDENTIFIED TO BE RELOCATED OR ABANDONED AT THE DEVELOPMENT, SHALL BE REMOVED FROM THE METER BOX PRIOR TO CONSTRUCTION AND GIVEN IMMEDIATELY TO THE DSD INSPECTOR.

26. THE ENGINEER SHALL CALL OUT THE SIZE, TYPE AND USE (DOMESTIC OR IRRIGATION) OF ALL EXISTING WATER METERS TO BE RELOCATED OR REPURPOSED. WATER METER NUMBERS WILL NOT BE REQUIRED TO BE PLACED ON THE PLAN SHEET. A SEPARATE AUSTIN WATER TAPS OFFICE FORM WILL BE USED TO PROVIDE RELEVANT INFORMATION FOR THE EXISTING INFORMATION ON EXISTING METERS TO RECEIVE APPROPRIATE CREDITS. THIS FORM SHALL BE DIRECTLY SUBMITTED TO AUSTIN WATER TAPS OFFICE FOR REVIEW AND PROCESSING.

27. NO CONNECTION MAY BE MADE BETWEEN THE PRIVATE PLUMBING AND AUSTIN WATER INFRASTRUCTURE UNTIL A CITY APPROVED WATER METER HAS BEEN INSTALLED.

28. ALL GRAVITY LINES SHALL BE INSTALLED DOWNSTREAM TO UPSTREAM.

29. METER BOXES AND CLEAN OUTS SHALL NOT BE LOCATED WITHIN PAVED AREAS SUCH AS DRIVEWAYS AND SIDEWALKS.

30. PROTECTED STREET STATUS IS SUBJECT TO CHANGE OVER TIME. IT IS THE OWNER'S RESPONSIBILITY TO CONFIRM THE STREET STATUS PRIOR TO CONSTRUCTION AS PROTECTED STREET STATUS WILL DIRECTLY IMPACT THE CONSTRUCTION COSTS. IR PROTECTED STREETS ARE PROPOSED TO BE DISTURBED, APPROVAL FROM THE STREET AND BRIDGE DIVISION OF THE TRANSPORTATION DEPARTMENT IS REQUIRED.

STREET AND BRIDGE SPECIAL NOTE:

ALL DAMAGE CAUSED DIRECTLY OR INDIRECTLY TO THE STREET SURFACE, SIDEWALK, DRIVEWAY, CURB & GUTTER, OR SUBSURFACE OUTSIDE OF THE PAVEMENT CUT AREA SHALL BE REGARDED AS A PART OF THE STREET CUT REPAIR. THIS INCLUDES ANY SCRAPES, GOUGES, CUTS, CRACKING, DEPRESSIONS, AND/OR ANY OTHER DAMAGE CAUSED BY THE CONTRACTOR DURING THE EXECUTION OF THE WORK. THESE REPAIR AREAS WILL BE INCLUDED IN THE TOTAL AREA OF RESTORATION. THESE AREAS SHALL BE SAW CUT IN STRAIGHT, NEAT LINES PARALLEL TO THE EXCAVATION OR UTILITY TRENCH AND TO THE NEXT EXISTING JOINT FOR SIDEWALKS AND CURB & GUTTER. ALL SUCH REPAIRS SHALL BE AT THE CONTRACTOR'S EXPENSE AND SHALL MEET ALL CITY TESTING REQUIREMENTS, STANDARDS, AND SPECIFICATIONS.

SEQUENCE OF CONSTRUCTION

1. SEE REMEDIAL TREE CARE NOTE (ECM P-6) .

2. HOLD PRE-CONSTRUCTION CONFERENCE.

3. TEMPORARY EROSION AND SEDIMENTATION CONTROLS ARE TO BE INSTALLED AS INDICATED ON THE APPROVED SITE PLAN OR SUBDIVISION CONSTRUCTION PLAN AND IN ACCORDANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) THAT IS REQUIRED TO BE POSTED ON THE SITE. INSTALL TREE PROTECTION AND INITIATE TREE MITIGATION MEASURES.

4. THE ENVIRONMENTAL PROJECT MANAGER OR SITE SUPERVISOR MUST CONTACT THE WATERSHED PROTECTION DEPARTMENT, ENVIRONMENTAL INSPECTION, AT 512-974-2278, 72 HOURS PRIOR TO THE SCHEDULED DATE OF THE REQUIRED ON-SITE PRECONSTRUCTION MEETING.

5. THE ENVIRONMENTAL PROJECT MANAGER, AND/OR SITE SUPERVISOR, AND/OR DESIGNATED RESPONSIBLE PARTY, AND THE GENERAL CONTRACTOR WILL FOLLOW THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) POSTED ON THE SITE. TEMPORARY EROSION AND SEDIMENTATION CONTROLS WILL BE REVISED, IF NEEDED, TO COMPLY WITH CITY INSPECTORS' DIRECTIVES, AND REVISED CONSTRUCTION SCHEDULE RELATIVE TO THE WATER QUALITY PLAN REQUIREMENTS AND THE EROSION PLAN.

6. ROUGH GRADE THE POND(S) AT 100% PROPOSED CAPACITY. EITHER THE PERMANENT OUTLET STRUCTURE OR A TEMPORARY OUTLET MUST BE CONSTRUCTED PRIOR TO DEVELOPMENT OF EMBANKMENT OR EXCAVATION THAT LEADS TO PONDING CONDITIONS. THE OUTLET SYSTEM MUST CONSIST OF A SUMP PIT OUTLET AND AN EMERGENCY SPILLWAY MEETING THE REQUIREMENTS OF THE DRAINAGE CRITERIA MANUAL AND/OR THE ENVIRONMENTAL CRITERIA MANUAL, AS REQUIRED. THE OUTLET SYSTEM SHALL BE PROTECTED FROM EROSION AND SHALL BE MAINTAINED THROUGHOUT THE COURSE OF CONSTRUCTION UNTIL INSTALLATION OF THE PERMANENT WATER QUALITY POND(S).

7. TEMPORARY EROSION AND SEDIMENTATION CONTROLS WILL BE INSPECTED AND MAINTAINED IN ACCORDANCE WITH THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) POSTED ON THE SITE.

8. BEGIN SITE CLEARING/CONSTRUCTION (OR DEMOLITION) ACTIVITIES.

9. PERMANENT WATER QUALITY PONDS OR CONTROLS WILL BE CLEANED OUT AND FILTER MEDIA WILL BE INSTALLED PRIOR TO/CONCURRENTLY WITH REVEGETATION OF SITE.

10. COMPLETE CONSTRUCTION AND START REVEGETATION OF THE SITE AND INSTALLATION OF LANDSCAPING.

11. UPON COMPLETION OF THE SITE CONSTRUCTION AND REVEGETATION OF A PROJECT SITE, THE DESIGN ENGINEER SHALL SUBMIT AN ENGINEER'S LETTER OF CONCURRENCE TO THE WATERSHED PROTECTION AND DEVELOPMENT REVIEW DEPARTMENT INDICATING THAT CONSTRUCTION, INCLUDING REVEGETATION, IS COMPLETE AND IN SUBSTANTIAL CONFORMITY WITH THE APPROVED PLANS. AFTER RECEIVING THIS LETTER, A FINAL INSPECTION WILL BE SCHEDULED BY THE APPROPRIATE CITY INSPECTOR.

12. UPON COMPLETION OF LANDSCAPE INSTALLATION OF A PROJECT SITE, THE LANDSCAPE ARCHITECT SHALL SUBMIT A LETTER OF CONCURRENCE TO THE WATERSHED PROTECTION AND DEVELOPMENT REVIEW DEPARTMENT INDICATING THAT THE REQUIRED LANDSCAPING IS COMPLETE AND IN SUBSTANTIAL CONFORMITY WITH THE APPROVED PLANS. AFTER RECEIVING THIS LETTER, A FINAL INSPECTION WILL BE SCHEDULED BY THE APPROPRIATE CITY INSPECTOR.

13. AFTER A FINAL INSPECTION HAS BEEN CONDUCTED BY THE CITY INSPECTOR AND WITH APPROVAL FROM THE CITY INSPECTOR, REMOVE THE TEMPORARY EROSION AND SEDIMENTATION CONTROLS AND COMPLETE ANY NECESSARY FINAL REVEGETATION RESULTING FROM REMOVAL OF THE CONTROLS. CONDUCT ANY MAINTENANCE AND REHABILITATION OF THE WATER QUALITY PONDS OR CONTROLS.

14. COMPLETE PERMANENT EROSION CONTROL AND SITE RESTORATION. REMOVE TEMPORARY EROSION/SEDIMENTATION CONTROLS AND TREE PROTECTION. RESTORE ANY AREAS DISTURBED DURING REMOVAL OF EROSION/SEDIMENTATION CONTROLS.

EXCEPTIONS TABLE

NOTE #	EXPLANATION OF EXCEPTION

REVIEWED

JAN 15 2020

Austin Water Utility

Enigbena



CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

ONION CREEK DISTRICT PARK
RECLAIMED MAIN PHASE 2

GENERAL CONSTRUCTION NOTES

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY CHRISTOPHER J. EVANS, LIC. # 109857.

I CERTIFY THAT THESE DRAWINGS ARE COMPLETE, ACCURATE AND ADEQUATE FOR THEIR INTENDED PURPOSES, INCLUDING CONSTRUCTION, BUT ARE NOT AUTHORIZED FOR CONSTRUCTION UNTIL FORMAL CITY APPROVAL.

NOTES	NAME	DATE
SURVEY BY	QMD	03/2018
DRAWN BY	CE	05/2019
DESIGNED BY	CE	05/2019
CHECKED BY	BA	05/2019
REVIEWED BY	ESD	05/2019

ENGINEERING SERVICES
DIVISION

GP-2019-____AWU

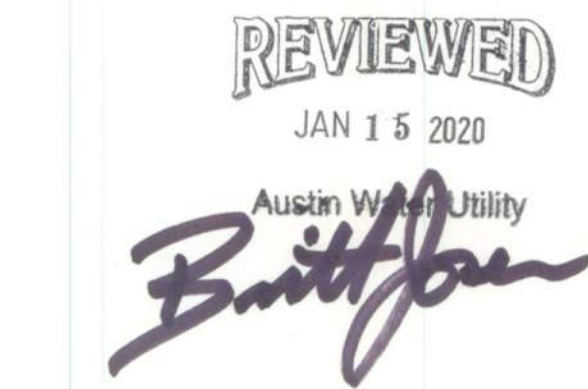
G0055 OF 24



PROPOSED RECLAIM WATER IMPROVEMENT SCHEDULE			
ID	LINE	DESCRIPTION	LENGTH
A	RWL-A	PROP. 8" DI CL 350 PROP. 16" DI CL 250	807 LF 481 LF

CONTROL POINT TABLE					
POINT NO.	NORTHING (GRID)	EASTING (GRID)	NORTHING (PLAN)	EASTING (PLAN)	ELEVATION
18	10032488.60	3110257.16	10032488.66	3110257.18	556.54
20	10030862.45	3109584.95	10030862.45	3109584.95	578.26

- GRID COORDINATE VALUES ARE TEXAS STATE PLANE COORDINATES NAD 83 (2011) EPOCH 2010, CENTRAL ZONE. THE GRID COORDINATES FOR CONTROL POINT 20 ARE EQUAL TO THE PLAN COORDINATES (SURFACE DISTANCE COORDINATE VALUES) FOR CONTROL POINT 18 FOR THIS PROJECT.
- CONTROLLING MONUMENTS FOR THIS PROJECT ARE POINT 18 AND POINT 20 AND THE GRID COORDINATES FOR BOTH POINTS WERE ESTABLISHED FROM MEANED MULTIPLE VRS GPS OBSERVATIONS.
- ELEVATIONS WERE ESTABLISHED UTILIZING MEANED VRS GPS OBSERVATIONS ON CONTROL POINTS. THE BASIS OF THESE ELEVATIONS ARE NAVD 88 (GEOID 12A).
- THE COMBINED SCALE FACTOR FOR THIS PROJECT IS 0.999965498.



BOREHOLES BY:
FUGRO USA LAND, INC.
8613 CROSS PARK DRIVE
AUSTIN, TEXAS 78754
PHONE: (512) 977-1800
FAX: (512) 573-9566

SURVEY PREPARED BY:
PUBLIC WORKS DEPARTMENT
QUALITY MANAGEMENT DIVISION
505 BARTON SPRINGS ROAD, SUITE 760
AUSTIN, TEXAS 78704
PHONE: (512) 974-7177
FAX: (512) 974-7179



REVISION DESCRIPTION

DATE

REV BY

NO.

STATE OF TEXAS

CHRISTOPHER EVANS

109857

PROFESSIONAL ENGINEER

12/05/2019

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY CHRISTOPHER J. EVANS LIC. # 109857

I CERTIFY THAT THESE DRAWINGS ARE COMPLETE, ACCURATE AND ADEQUATE FOR THEIR INTENDED PURPOSES, INCLUDING CONSTRUCTION, BUT ARE NOT AUTHORIZED FOR CONSTRUCTION UNTIL FORMAL CITY APPROVAL.

CITY OF AUSTIN, TEXAS

DEPARTMENT OF PUBLIC WORKS

ENGINEERING SERVICES DIVISION

UNION CREEK DISTRICT PARK

RECLAIMED MAIN PHASE 2

PROJECT OVERVIEW PLAN

CITY OF AUSTIN

FOUNDED 1859

NOTES	NAME	DATE
SURVEY BY	QMD	03/2018
DRAWN BY	CE	05/2019
DESIGNED BY	CE	05/2019
CHECKED BY	BA	05/2019
REVIEWED BY	ESD	05/2019

0 100 200

HORIZONTAL SCALE IN FEET

GP-2019-___AWU

G101 6 OF 24

N:\TEAM2\AW_UNION_CREEK_PH2\DWG\PRODUCTION_FILES\DWG\02R-GN-0VR\DWG_COA_PDF_22X34_COA_ESD.STB 12/3/2019 5:42 PM EVANS, CHRISTOPHER

CITY OF AUSTIN - STANDARD NOTES
EROSION AND SEDIMENTATION CONTROL
(MODIFIED FOR USE ON GENERAL PERMIT PROJECTS)

- THE CONTRACTOR SHALL INSTALL EROSION/SEDIMENTATION CONTROLS AND TREE/NATURAL AREA PROTECTIVE FENCING PRIOR TO ANY SITE PREPARATION WORK (CLEARING, GRUBBING, OR EXCAVATION).
- THE PLACEMENT OF EROSION/SEDIMENTATION CONTROLS SHALL BE IN ACCORDANCE WITH THE ENVIRONMENTAL CRITERIA MANUAL AND THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN.
- THE PLACEMENT OF TREE/NATURAL AREA PROTECTIVE FENCING SHALL BE IN ACCORDANCE WITH THE CITY OF AUSTIN STANDARD NOTES FOR TREE AND NATURAL AREA PROTECTION AND THE APPROVED GRADING/TREE AND NATURAL AREA PLAN.
- A PRE-CONSTRUCTION CONFERENCE SHALL BE HELD ON-SITE WITH THE CONTRACTOR, DESIGN ENGINEER, PERMIT APPLICANT, AND GENERAL PERMIT PROGRAM REPRESENTATIVE AFTER INSTALLATION OF THE EROSION/SEDIMENTATION CONTROLS AND THE TREE/NATURAL AREA PROTECTION MEASURES AND PRIOR TO BEGINNING ANY SITE PREPARATION WORK. THE CONTRACTOR SHALL NOTIFY THE GENERAL PERMIT PROGRAM OFFICE AT 512/974-6330, AT LEAST 3 DAYS PRIOR TO THE MEETING DATE.
- ANY SIGNIFICANT VARIATION IN MATERIALS OR LOCATIONS OF CONTROLS OR FENCES FROM THOSE SHOWN ON THE APPROVED PLANS MUST BE APPROVED BY THE REVIEWING ENGINEER AND THE GENERAL PERMIT PROGRAM REPRESENTATIVE.
- THE CONTRACTOR IS REQUIRED TO INSPECT THE CONTROLS AND FENCES AT DAILY INTERVALS AND AFTER SIGNIFICANT RAINFALL EVENTS TO INSURE THAT THEY ARE FUNCTIONING PROPERLY. THE PERSON(S) RESPONSIBLE FOR MAINTENANCE OF CONTROLS AND FENCES SHALL IMMEDIATELY MAKE ANY NECESSARY REPAIRS TO DAMAGED AREAS. SILT ACCUMULATION AT CONTROLS MUST BE REMOVED WHEN THE DEPTH REACHES SIX (6) INCHES. SILT ACCUMULATION AT INLET DEVICES SHOULD BE REMOVED WHEN THE DEPTH REACHES TWO (2) INCHES.
- PRIOR TO FINAL ACCEPTANCE BY THE CITY, HAUL ROADS AND WATERWAY CROSSINGS CONSTRUCTED FOR TEMPORARY CONTRACTOR ACCESS MUST BE REMOVED, ACCUMULATED SEDIMENT REMOVED FROM THE WATERWAY AND THE AREA RESTORED TO THE ORIGINAL GRADE AND REVEGETATED. ALL LAND CLEARING DEBRIS SHALL BE DISPOSED OF IN APPROVED SPOIL DISPOSAL SITES.
- ALL WORK MUST STOP IF A VOID IN THE ROCK SUBSTRATE IS DISCOVERED WHICH IS ONE SQUARE FOOT OR LARGER IN TOTAL AREA, BLOWS AIR FROM WITHIN THE SUBSTRATE, AND/OR CONSISTENTLY RECEIVES WATER DURING ANY RAIN EVENT. AT THIS TIME, IT IS THE RESPONSIBILITY OF THE PROJECT MANAGER TO IMMEDIATELY CONTACT THE GENERAL PERMIT PROGRAM REPRESENTATIVE FOR FURTHER INVESTIGATION.
- FIELD REVISIONS TO THE EROSION/SEDIMENTATION CONTROL PLAN MAY BE REQUIRED BY THE GENERAL PERMIT PROGRAM REPRESENTATIVE DURING THE COURSE OF CONSTRUCTION TO CORRECT CONTROL INADEQUACIES. ANY REVISIONS TO THE PERMITTED PLAN MUST BE APPROVED BY THE GENERAL PERMIT PROGRAM OFFICE OF THE PLANNING AND DEVELOPMENT REVIEW DEPARTMENT.
- PERMANENT EROSION/SEDIMENTATION CONTROL: ALL DISTURBED AREAS SHALL BE RESTORED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, WHERE THE CRITERIA MANUAL AND CONTRACT DOCUMENTS DIFFER THE MOST ENVIRONMENTALLY BENEFICIAL MATERIALS/METHOD SHALL BE REQUIRED UNLESS OTHERWISE APPROVED BY THE GENERAL PERMIT PROGRAM REPRESENTATIVE.
- DEVELOPER INFORMATION:

OWNER:
COMPANY: CITY OF AUSTIN
CONTACT:
ADDRESS:

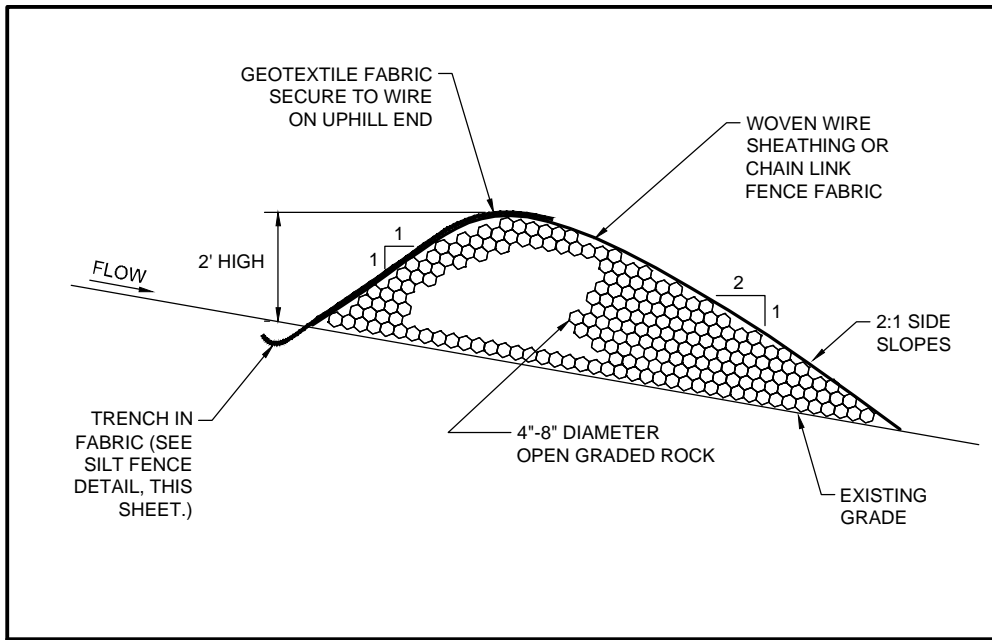
PHONE:
E-MAIL:

OWNER'S REPRESENTATIVE RESPONSIBLE FOR PLAN ALTERATIONS:
COMPANY:
CONTACT:
ADDRESS:

PHONE:
E-MAIL:

PARTY RESPONSIBLE FOR EROSION/SEDIMENTATION CONTROL MAINTENANCE:
COMPANY: CONTRACTOR

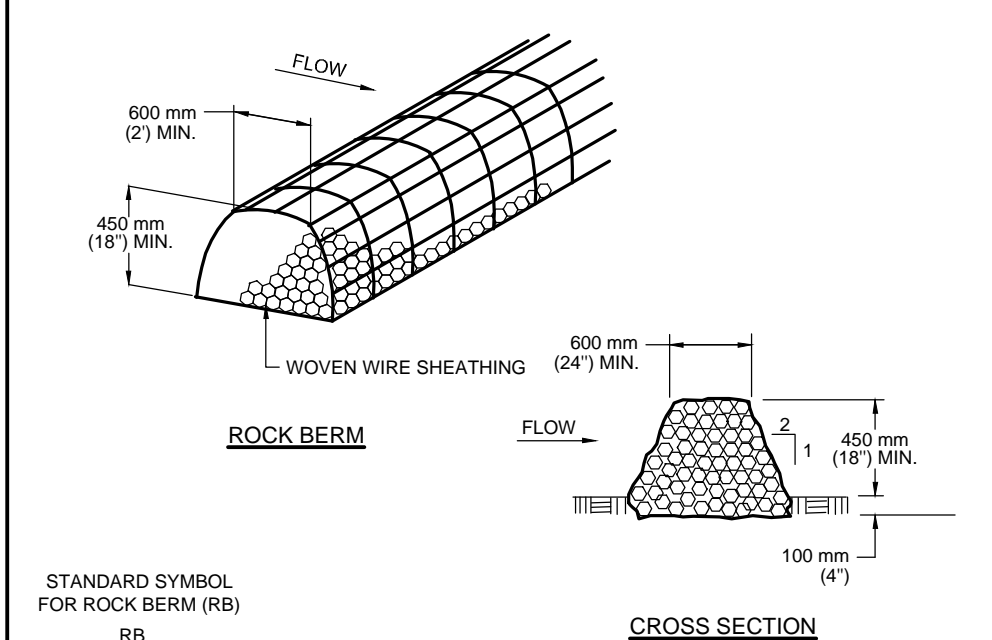
PARTY RESPONSIBLE FOR TREE/NATURAL AREA PROTECTION MAINTENANCE:
COMPANY: CONTRACTOR
- THE CONTRACTOR SHALL NOT DISPOSE OF SURPLUS EXCAVATED MATERIAL FROM THE SITE WITHOUT NOTIFYING THE GENERAL PERMIT PROGRAM REPRESENTATIVE, AT 974-6330, AT LEAST 48 HOURS PRIOR TO THE SPOILS REMOVAL. THIS NOTIFICATION SHALL INCLUDE THE DISPOSAL LOCATION AND A COPY OF THE PERMIT ISSUED TO RECEIVE THE MATERIAL.
- INLET PROTECTION SHALL BE INSTALLED IMMEDIATELY PRIOR TO STREET WORK, AND WILL BE REMOVED AS SOON AS THE GENERAL PERMIT PROGRAM REPRESENTATIVE AGREES THAT THERE IS NO POTENTIAL FOR SEDIMENTATION.



NOTES:

- USE ONLY OPEN GRADED ROCK, 4-8 INCH DIAMETER, FOR STREAM FLOW CONDITION. USE OPEN GRADED ROCK, 3-5 INCH DIAMETER, FOR OTHER CONDITIONS.
- ROCK BERM SHALL BE SECURED WITH A WOVEN WIRE SHEATHING HAVING MAXIMUM 1 INCH OPENING AND MINIMUM WIRE DIAMETER OF 20 GAUGE.
- ROCK BERM SHALL BE INSPECTED WEEKLY OR AFTER EACH RAIN, AND THE STONE AND/OR FABRIC CORE-WOVEN WIRE SHEATHING SHALL BE REPLACED WHEN THE STRUCTURE CEASES TO FUNCTION AS INTENDED, DUE TO SILT ACCUMULATION AMONG THE ROCKS, WASHOUT, CONSTRUCTION TRAFFIC DAMAGE, ETC.
- WHEN SILT REACHES A DEPTH EQUAL TO ONE-THIRD THE HEIGHT OF THE BERM OR ONE FOOT, WHICHEVER IS LESS, THE SILT SHALL BE REMOVED AND DISPOSED OF IN AN APPROVED SITE AND IN A MANNER AS TO NOT CREATE A SILTATION PROBLEM.
- DAILY INSPECTION SHALL BE MADE ON SEVERE SERVICE ROCK BERMS; SILT SHALL BE REMOVED WHEN ACCUMULATION REACHES 6 INCHES.
- WHEN SITE IS COMPLETELY STABILIZED, THE BERM AND ACCUMULATED SILT SHALL BE REMOVED AND DISPOSED OF IN AN APPROVED MANNER.

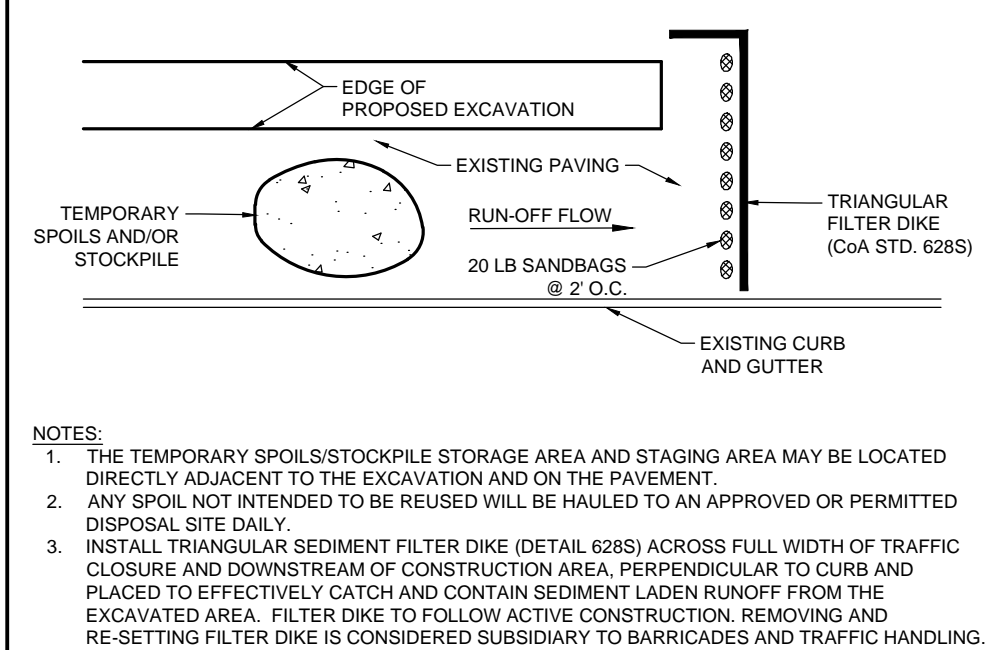
CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT	FABRIC COVERED (SEVERE SERVICE) ROCK BERM	CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT
RECORD COPY SIGNED BY MORGAN BYARS 8/24/2010 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. N / A



NOTES:

- USE ONLY OPEN GRADED ROCK 75 to 125 mm (3 to 5") DIAMETER FOR ALL CONDITIONS.
- THE ROCK BERM SHALL BE SECURED WITH A WOVEN WIRE SHEATHING HAVING MAXIMUM 25 mm (1") OPENING AND MINIMUM WIRE DIAMETER OF 12.9 mm (20 GAUGE).
- THE ROCK BERM SHALL BE INSPECTED DAILY OR AFTER EACH RAIN, AND THE STONE AND/OR FABRIC CORE-WOVEN SHEATHING SHALL BE REPLACED WHEN THE STRUCTURE CEASES TO FUNCTION AS INTENDED, DUE TO SEDIMENT ACCUMULATION AMONG THE ROCKS, WASHOUT, CONSTRUCTION TRAFFIC DAMAGE, ETC.
- IF SEDIMENT REACHES A DEPTH EQUAL TO ONE-THIRD THE HEIGHT OF THE BERM OR 150 mm (6"), WHICHEVER IS LESS, THE SEDIMENT SHALL BE REMOVED AND DISPOSED OF ON AN APPROVED SITE AND IN A MANNER THAT WILL NOT CREATE A SEDIMENTATION PROBLEM.
- WHEN THE SITE IS COMPLETELY STABILIZED, THE BERM AND ACCUMULATED SEDIMENT SHALL BE REMOVED AND DISPOSED OF IN AN APPROVED MANNER.

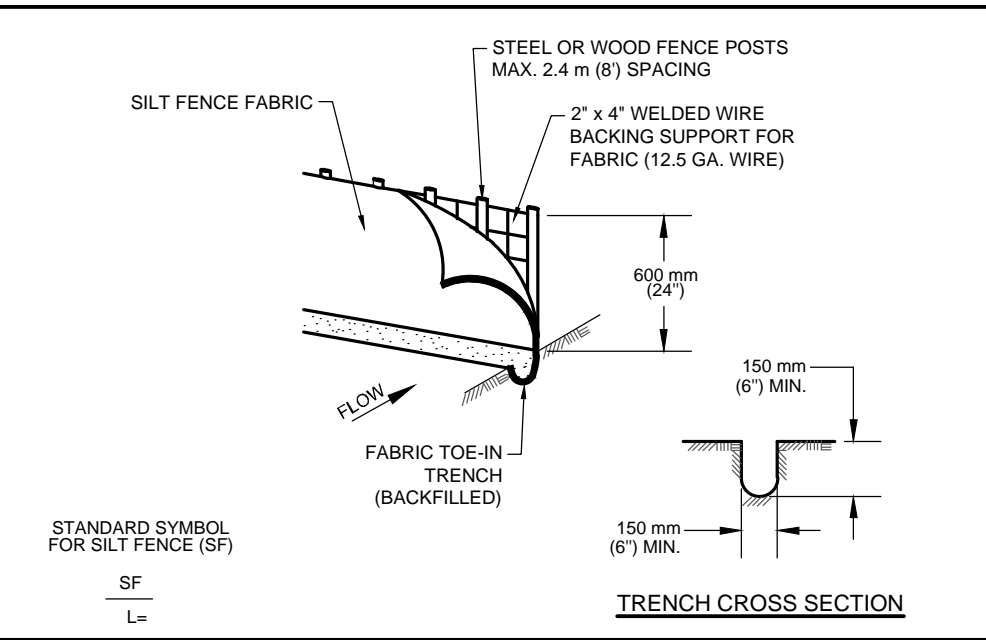
CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT	ROCK BERM	CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT
RECORD COPY SIGNED BY MORGAN BYARS 8/24/2010 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 639S-1



NOTES:

- THE TEMPORARY SPOILS/STOCKPILE STORAGE AREA AND STAGING AREA MAY BE LOCATED DIRECTLY ADJACENT TO THE EXCAVATION AND ON THE PAVEMENT.
- ANY SPOIL NOT INTENDED TO BE REUSED WILL BE HAULED TO AN APPROVED OR PERMITTED DISPOSAL SITE DAILY.
- INSTALL TRIANGULAR SEDIMENT FILTER DIKE (DETAIL 628S) ACROSS FULL WIDTH OF TRAFFIC CLOSURE AND DOWNSTREAM OF CONSTRUCTION AREA, PERPENDICULAR TO CURBS AND PLACED TO EFFECTIVELY CATCH AND CONTAIN SEDIMENT LADEN RUNOFF FROM THE EXCAVATED AREA. FILTER DIKE TO FOLLOW ACTIVE CONSTRUCTION, REMOVING AND RE-SETTING FILTER DIKE IS CONSIDERED SUBSIDIARY TO BARRICADES AND TRAFFIC HANDLING.

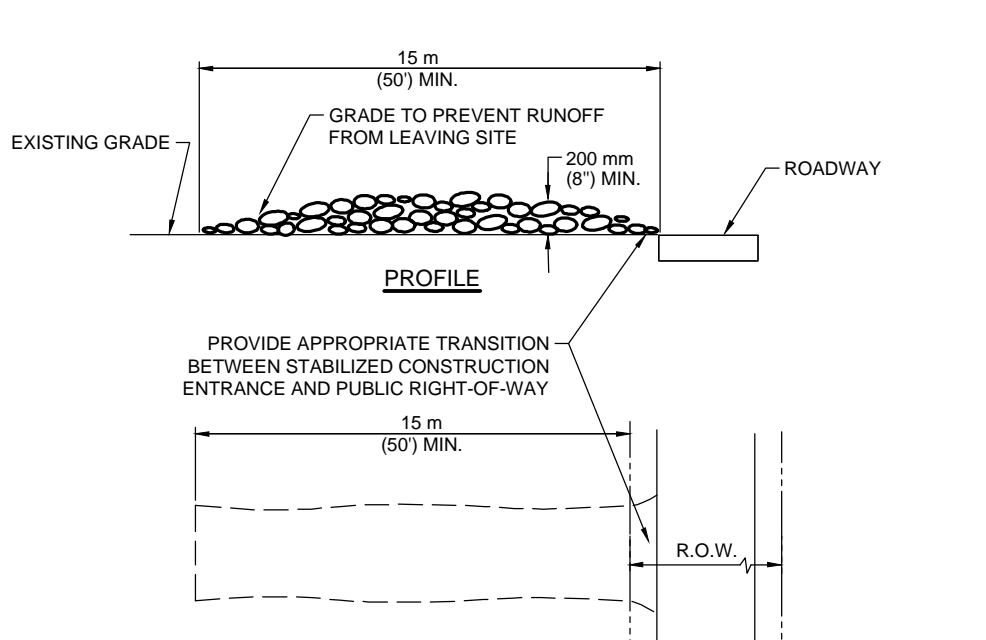
ADDITIONAL EROSION/SEDIMENTATION CONTROL FOR WORK
IN PAVED AREAS FOR GENERAL PERMIT PROGRAM PROJECTS



NOTES:

- STEEL OR WOOD POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF 300 mm (12 INCHES). IF WOOD POSTS CANNOT ACHIEVE 300 mm (12 INCHES) DEPTH, USE STEEL POSTS.
- THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW.
- THE TRENCH MUST BE A MINIMUM OF 150 mm (6 INCHES) DEEP AND 150 mm (6 INCHES) WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.
- SILT FENCE FABRIC SHOULD BE SECURELY FASTENED TO EACH STEEL OR WOOD SUPPORT POST OR TO WOVEN WIRE, WHICH IS IN TURN ATTACHED TO THE STEEL OR WOOD FENCE POST.
- INSPECTION SHALL BE MADE WEEKLY OR AFTER EACH RAINFALL EVENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
- SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
- ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 150 mm (6 INCHES). THE SILT SHALL BE DISPOSED OF ON AN APPROVED SITE AND IN SUCH A MANNER THAT WILL NOT CONTRIBUTE TO ADDITIONAL SILTATION.

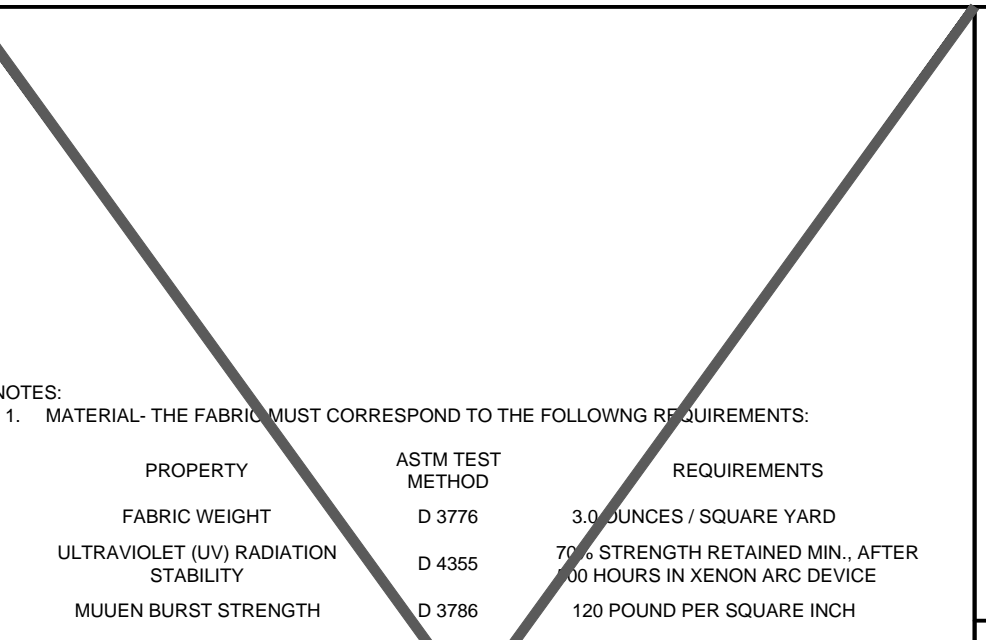
CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT	SILT FENCE	CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT
RECORD COPY SIGNED BY MORGAN BYARS 8/24/2011 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 642S-1



NOTES:

- STONE SIZE: 75-125 mm (3-5") OPEN GRADED ROCK.
- LENGTH: AS EFFECTIVE BUT NOT LESS THAN 15 m (50').
- THICKNESS: NOT LESS THAN 200 mm (8").
- WIDTH: NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS/EGRESS.
- WASHING: WHEN NECESSARY, VEHICLE WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC ROADWAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE AND DRAINS INTO AN APPROVED TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATERCOURSE USING APPROVED METHODS.
- MAINTENANCE: THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC ROADWAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND, AS WELL AS REPAIR AND CLEAN OUT OF ANY MEASURE DEVICES USED TO TRAP SEDIMENT. ALL SEDIMENTS THAT IS SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADWAY MUST BE REMOVED IMMEDIATELY.
- DRAINAGE: ENTRANCE MUST BE PROPERLY GRADED OR INCORPORATE A DRAINAGE SWALE TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.

CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT	STABILIZED CONSTRUCTION ENTRANCE	CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT
RECORD COPY SIGNED BY J. PATRICK MURPHY 5/23/00 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 641S-1

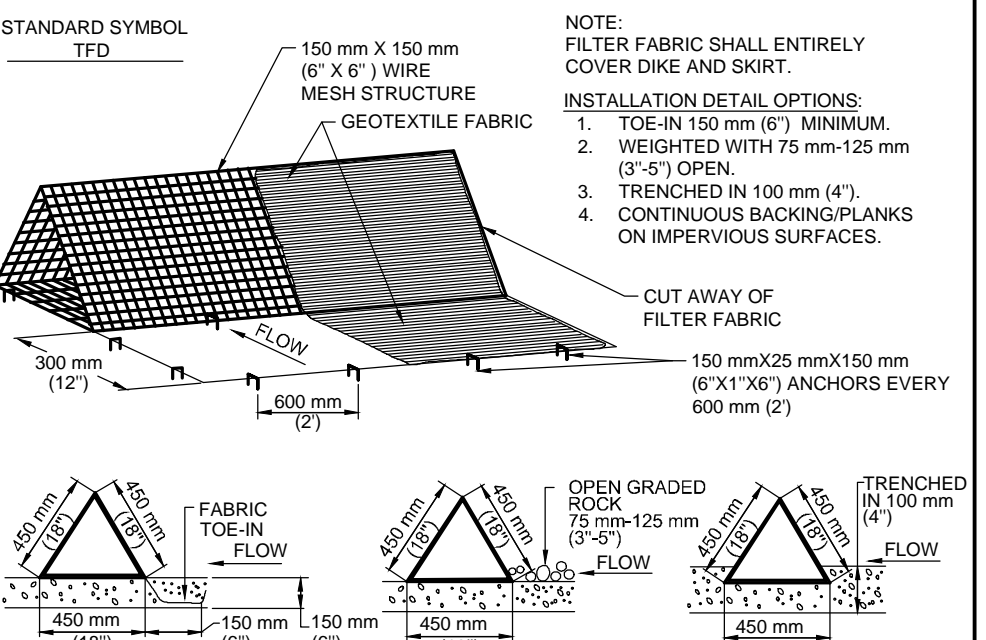


NOTES:

- MATERIAL- THE FABRIC MUST CORRESPOND TO THE FOLLOWING REQUIREMENTS:

PROPERTY	ASTM TEST METHOD	REQUIREMENTS
FABRIC WEIGHT	D 3776	3.0 LUNCES / SQUARE YARD
ULTRAVIOLET (UV) RADIATION STABILITY	D 4355	70% STRENGTH RETAINED MIN. AFTER 100 HOURS IN XENON ARC DEVICE
MUIEN BURST STRENGTH	D 3786	120 POUND PER SQUARE INCH
WATER FLOW RATE	D 4491	275 GALLONS / MINUTE / SQUARE FEET
- THIS MATERIAL SHOULD HAVE A MAXIMUM EXPECTED USEFUL LIFE OF APPROXIMATELY EIGHTEEN (18) MONTHS. THE INLET PROTECTION DEVICES SHOULD BE CONSTRUCTED IN A MANNER THAT WILL FACILITATE CLEAN OUT AND DISPOSAL OF TRAPPED SEDIMENT WHILE MINIMIZING INTERFERENCE WITH CONSTRUCTION ACTIVITIES. THEY SHOULD ALSO BE CONSTRUCTED SUCH THAT ANY PONDING OF STORM WATER WILL NOT CAUSE EXCESSIVE R.O.W. FLOODING (I.E. < 4 INCHES OF STANDING WATER) OR DAMAGE TO THE STRUCTURE OR ADJACENT AREAS.
- COVERAGE- THE FABRIC / WIRE SHOULD COMPLETELY COVER THE OPENING OF THE INLET AND DEVICES SHOULD BE INSTALLED WITHOUT PROTRUDING PARTS THAT COULD BE A TRAFFIC, WORKER, OR PEDESTRIAN HAZARD. WHERE SECTIONS OF THE FABRIC OVERLAP, THEY SHALL OVERLAP AT LEAST THREE (3) INCHES.
- THE INLET FILTER SHALL BE ATTACHED IN A WAY THAT THEY CAN EASILY BE REMOVED AND ARE NOT SECURED OR ATTACHED BY THE USE OF SAND BAGS. THE INLET FILTER MUST BE REMOVED UPON COMPLETION OF WORK. IF REMOVAL DAMAGES THE CONCRETE CURB, THE CURB MUST BE REPAIRED IMMEDIATELY.
- DAILY INSPECTION SHALL BE MADE BY THE CONTRACTOR AND SILT ACCUMULATION MUST BE REMOVED WHEN THE DEPTH REACHES 50 MM (2 INCHES) INCHES OR ONE-THIRD THE HEIGHT OF THE INLET THROAT, AND DISPOSED OF IN A MANNER WHICH WILL NOT CAUSE ADDITIONAL SILTATION.
- CONTRACTOR SHALL MONITOR THE PERFORMANCE OF INLET PROTECTION DURING EACH RAINFALL EVENT AND IMMEDIATELY REMOVE THE INLET PROTECTIONS IF THE STORMWATER BEGINS TO OVERTOP THE CURB.
- INLET PROTECTIONS SHALL BE REMOVED AS SOON AS THE SOURCE OF SEDIMENT HAS ACHIEVED FINAL STABILIZATION CONDITIONS.

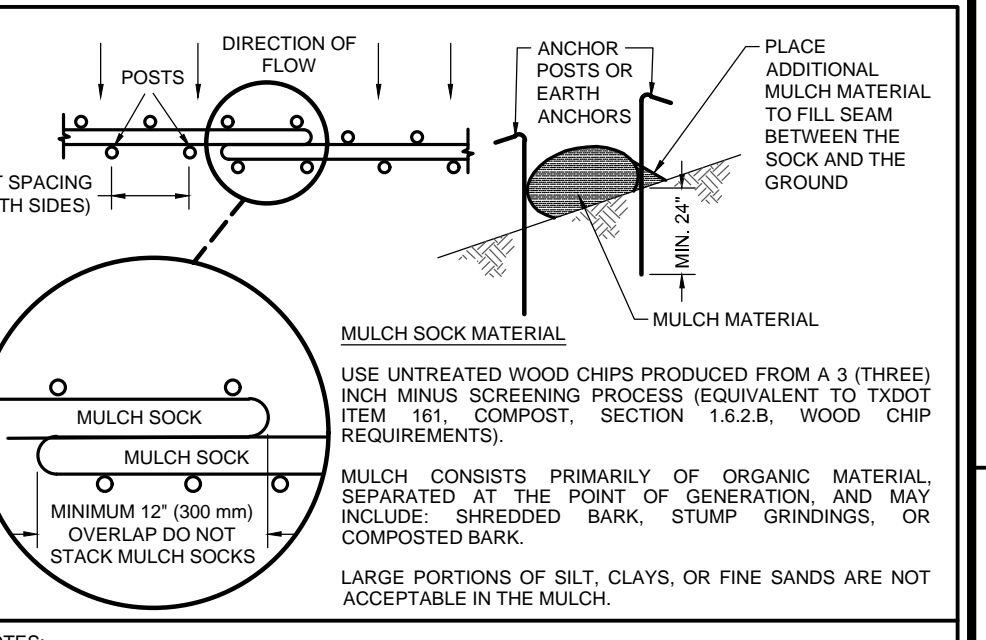
CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT	FILTER DIKE CURB INLET PROTECTION	CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT
RECORD COPY SIGNED BY MAPI VIGIL 10/30/09 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 628S-2



GENERAL NOTES:

- DIKES SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT DIKE.
- THE FABRIC COVER AND SKIRT SHALL BE A CONTINUOUS WRAPPING OF GEOTEXTILE. THE SKIRT SHALL BE A CONTINUOUS EXTENSION OF THE FABRIC ON THE UPSTREAM FACE.
- THE SKIRT SHALL BE WEIGHTED WITH A CONTINUOUS LAYER OF 75-125 mm (3-5") OPEN GRADED ROCK OR TOED-IN 150 mm (6") WITH MECHANICALLY COMPACTED MATERIAL. OTHERWISE, THE ENTIRE STRUCTURE SHALL BE TRENCHED IN 100 mm (4").
- DIKES AND SKIRT SHALL BE SECURELY ANCHORED IN PLACE USING 150 mm (6") WIRE STAPLES ON 600 mm (2') CENTERS ON BOTH EDGES AND SKIRT, OR STAKE USING 10M (3/8") DIAMETER RE-BAR WITH TEE ENDS.
- FILTER MATERIAL SHALL BE LAPPED OVER ENDS 150 mm (6") TO COVER DIKE TO DIKE JOINTS. JOINTS SHALL BE FASTENED WITH GALVANIZED SHOAT RINGS.
- THE DIKE STRUCTURE SHALL BE MW40-150 mmX150 mm (6 GA. 6"x6") WIRE MESH. 450 mm (18") ON A SIDE.
- INSPECTION SHALL BE MADE WEEKLY OR AFTER EACH RAINFALL EVENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED BY THE CONTRACTOR.
- ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 150 mm (6") AND DISPOSED OF IN A MANNER WHICH WILL NOT CAUSE ADDITIONAL SILTATION.
- AFTER THE DEVELOPMENT SITE IS COMPLETELY STABILIZED, THE DIKES AND ANY REMAINING SILT SHALL BE REMOVED. SILT SHALL BE DISPOSED OF AS INDICATED IN GENERAL NOTE 8 ABOVE.

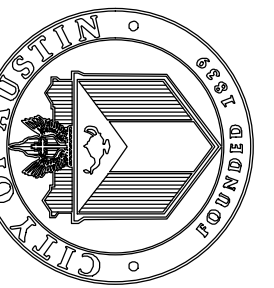
CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT	TRIANGULAR SEDIMENT FILTER DIKE	CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT
RECORD COPY SIGNED BY J. PATRICK MURPHY 3/27/00 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 628S



NOTES:

- STEEL OR WOOD POSTS WHICH SUPPORT THE MULCH SOCK SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF 600mm (24 inches). IF WOOD POSTS CANNOT ACHIEVE 600mm (24 inches) DEPTH, USE STEEL POSTS. EARTH ANCHORS ARE ALSO ACCEPTABLE.
- THE TOE OF THE MULCH SOCK SHALL BE PLACED SO THAT THE MULCH SOCK IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. IN ORDER TO PREVENT WATER FROM FLOWING BETWEEN THE JOINTS OF ADJACENT ENDS OF MULCH SOCKS, LAP THE ENDS OF ADJACENT MULCH SOCKS A MINIMUM OF 300mm (12 inches).
- MULCH MATERIAL MUST BE FREE OF REFUSE, PHYSICAL CONTAMINANTS, AND MATERIAL TOXIC TO PLANT GROWTH; IT IS NOT ACCEPTABLE FOR THE MULCH MATERIAL TO CONTAIN GROUND CONSTRUCTION DEBRIS, BIOSOLIDS, OR MANURE.
- SOCK MATERIAL WILL BE 100% BIODEGRADABLE, PHOTODEGRADABLE, OR RECYCLABLE SUCH AS BURLAP, TWINE, UV PHOTOBIODEGRADABLE PLASTIC, POLYESTER, OR ANY OTHER ACCEPTABLE MATERIAL.
- MULCH SOCKS SHOULD BE USED AT THE BASE OF SLOPES NO STEEPER THAN 2:1 AND SHOULD NOT EXCEED THE MAXIMUM SPACING CRITERIA PROVIDED IN CITY OF AUSTIN ENVIRONMENTAL CRITERIA MANUAL TABLE 1.4.5.F.1 FOR A GIVEN SLOPE CATEGORY.
- ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 150mm (6 inches). THE SILT SHALL BE DISPOSED OF ON AN APPROVED SITE AND IN SUCH A MANNER THAT WILL NOT CONTRIBUTE TO ADDITIONAL SILTATION.

CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT	MULCH SOCK	CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT
RECORD COPY SIGNED BY MORGAN BYARS 08/24/2010 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 648S-1



GENERAL PERMIT OFFICE
EROSION & SEDIMENTATION
CONTROL
CITY OF AUSTIN STANDARD NOTES AND DETAILS

REVISIONS	NO.	DATE	BY	REMARKS

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CHRISTOPHER J. EVANS, P.E.
LIC. # 109857
11/19/2019.

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GP-2019-____.AWU

CE001 7 OF 24

GENERAL PERMIT PROGRAM (GPP)
STANDARD ENVIRONMENTAL NOTES:

ADDITIONAL AREAS:

- ANY ADDITIONAL AREAS REQUIRED FOR CONSTRUCTION OF THIS PROJECT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR MUST SECURE CITY OF AUSTIN APPROVAL OF PROPOSED ADDITIONAL AREAS PRIOR TO USE. APPROVAL OF "CORRECTION REQUEST" MUST BE SECURED FROM THE GENERAL PERMIT PROGRAM OFFICE OF THE PLANNING AND DEVELOPMENT REVIEW DEPARTMENT.
- ALL ASSOCIATED PERMITS AND FEES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- IN ORDER TO SECURE APPROVAL FOR USE OF ADDITIONAL AREAS, CONTRACTOR MUST PROVIDE COMPLETE "CORRECTION REQUEST" SUBMITTAL TO GENERAL PERMIT PROGRAM OFFICE AND ALLOW A ONE WEEK COMMENT PERIOD FOR EACH REVIEW. CONTRACTOR SHOULD REQUEST INFORMATION ON THE ELEMENTS REQUIRED TO BE INCLUDED IN THE SUBMITTAL FROM THE OWNER'S REPRESENTATIVE OR THE GENERAL PERMIT PROGRAM OFFICE.
- CONTRACTOR MUST INSTALL AND MAINTAIN EROSION/SEDIMENTATION CONTROLS AND TREE PROTECTION FOR ALL SUCH AREAS IN ACCORDANCE WITH THE CITY OF AUSTIN ENVIRONMENTAL CRITERIA MANUAL AND AS INCLUDED IN THE APPROVED SUBMITTAL OR DIRECTED IN THE FIELD BY THE GENERAL PERMIT PROGRAM REPRESENTATIVE.
- A SIGNED COPY OF THE PLANS PERMITTED THROUGH THE GENERAL PERMIT PROGRAM MUST BE KEPT ON SITE AND ACCESSIBLE AT ALL TIMES DURING PROJECT CONSTRUCTION.

DEWATERING:

CONTRACTOR IS RESPONSIBLE FOR DEWATERING OF WORK AREA. CONTRACTOR MUST SECURE CITY OF AUSTIN APPROVAL OF PROPOSED DEWATERING PROCEDURES PRIOR TO INSTALLATION OR USE. APPROVAL MUST BE SECURED FROM THE GENERAL PERMIT PROGRAM (GPP) OFFICE OF THE PLANNING AND DEVELOPMENT REVIEW DEPARTMENT. CONTRACTOR MUST PROVIDE COMPLETE SUBMITTAL TO GPP OFFICE AND ALLOW AN ONE WEEK (MIN.) COMMENT PERIOD FOR EACH REVIEW. CONTACT THE GPP OFFICE FOR SUBMITTAL REQUIREMENTS.

FUEL STORAGE:

FUEL STORAGE IS PROHIBITED ON THIS PROJECT. ADDITIONALLY, THE CONTRACTOR IS REQUIRED TO NOTIFY THE GENERAL PERMIT PROGRAM OFFICE IMMEDIATELY FOLLOWING ANY SPILL OF FUEL OR OTHER TOXIC MATERIAL. CONTRACTOR IS REQUIRED TO FOLLOW-UP WITH WRITTEN DOCUMENTATION, INCLUDING A COMPLETE DESCRIPTION OF THE INCIDENT, MATERIAL SPILLED, AND ACTIONS TAKEN TO CONTAIN AND CLEAN-UP MATERIAL.

FUGITIVE DUST CONTROL:

ALL PROJECTS APPROVED THROUGH THE GENERAL PERMIT PROGRAM (GPP) MUST COMPLY WITH THE CODE OF THE CITY OF AUSTIN AND THE ENVIRONMENTAL CRITERIA MANUAL REQUIREMENTS TO CONTROL AIRBORNE DUST. COMPLIANCE IS REQUIRED FOR ENTIRE PROJECT SITE AS WELL AS ASSOCIATED OPERATIONS. CONTACT THE GPP OFFICE FOR RECOMMENDED CONTROL METHODS.

SPOILS STORAGE:

NO SPOILS STORAGE IS ALLOWED WITHIN A CRITICAL WATER QUALITY ZONE, A 100-YEAR FLOODPLAIN, OR ON A SLOPE WITH A GRADIENT OF MORE THAN 15 PERCENT.

E/S CONTROLS FOR BORE / RECEIVING PIT LOCATIONS:

TEMPORARY E/S CONTROLS MUST SURROUND THE ENTIRETY OF BORING OPERATIONS, INCLUDING PIT, EQUIPMENT, ETC. FOR LOCATIONS WITHIN IMPERVIOUS AREAS, TEMPORARY CONTROL WILL BE TRIANGULAR FILTER DIKE (COA STANDARD DETAIL #628S). DIKE FLAP WILL BE CONTINUOUSLY WEIGHTED DOWN THROUGH THE USE OF 1" BY 4" WOOD STRIPS NAILED TO THE PAVEMENT, EXCEPT FOR THE ACCESS POINT. PLACEMENT OF TEMPORARY E/S CONTROLS ACROSS ACCESS POINT WILL BE REQUIRED WHENEVER THE SITE IS NOT ACTIVELY USED. FOR LOCATIONS WITHIN PERVIOUS AREAS, TEMPORARY CONTROL WILL BE SILT FENCE (COA STANDARD DETAIL #642S-1) OR MULCH SOCKS (COA STANDARD DETAIL #648S-1), AS INDICATED ON APPROVED PLANS.

SOIL RETENTION BLANKET:

UNLESS OTHERWISE INDICATED IN THE PROJECT DOCUMENTS, INSTALLATION OF SOIL RETENTION BLANKET WILL BE REQUIRED FOR ALL IMPACTED SLOPES GREATER THAN 3:1 AND ALL IMPACTED AREAS WITHIN DRAINAGE CONVEYANCES. (CITY OF AUSTIN STANDARD SPECIFICATION ITEM 605S) SOIL RETENTION BLANKET SUBMITTAL MUST BE APPROVED BY PROJECT ENGINEER AND GENERAL PERMIT PROGRAM (GPP) REPRESENTATIVE PRIOR TO USE AND MUST INCLUDE PRODUCT AND INSTALLATION DETAILS PROVIDED BY MANUFACTURER. FINISH GRADING MUST BE INSPECTED AND APPROVED BY GPP INSPECTOR PRIOR TO BLANKET INSTALLATION. INSTALLATION MUST BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND MUST BE INSPECTED AND APPROVED BY GPP REPRESENTATIVE PRIOR TO ACCEPTANCE.

SOD INSTALLATION:

REVEGETATION WITHIN MANAGED TURF AREAS MUST BE ACCOMPLISHED THROUGH THE INSTALLATION OF SOLID BLOCK GRASS SOD. SOD TYPE MUST MATCH ADJACENT GRASS TYPE. QUESTIONS REGARDING SOD TYPE WILL BE RESOLVED BY THE GENERAL PROGRAM PERMIT REPRESENTATIVE. REFER TO CITY OF AUSTIN STANDARD SPECIFICATION ITEM NO. 602S: SODDING FOR EROSION CONTROL, UNLESS OTHERWISE NOTED ON THE APPROVED PLANS.

TxDOT RIGHTS-OF-WAY:

TOPSOIL (TxDOT ITEM NO. 160), SOIL RETENTION BLANKET (TxDOT ITEM NO. 169), AND REVEGETATION (TxDOT ITEM NO. 164) INSTALLED WITHIN TEXAS DEPARTMENT OF TRANSPORTATION (TxDOT) RIGHT-OF-WAY SHALL COMPLY WITH "REQUIREMENTS FOR INSTALLATION OF UTILITIES WITHIN THE STATE RIGHT-OF-WAY, AUSTIN DISTRICT".

PROJECT SEQUENCE:
(REFER TO FULL PLAN SET FOR PROJECT-SPECIFIC ADDITIONS, IF APPLICABLE.)

PRIOR TO CONSTRUCTION:

- SECURE APPLICABLE COA PERMITS, INCLUDING APPROVAL UNDER GENERAL PERMIT PROGRAM AND RIGHT-OF-WAY EXCAVATION PERMIT.
- NOTIFY GENERAL PERMIT PROGRAM REPRESENTATIVE PRIOR TO PLACEMENT OF E/S CONTROLS AND TREE PROTECTION FENCING. ALL PROPOSED PHASING OF CONTROLS MUST BE SUBMITTED TO AND APPROVED BY THE GENERAL PERMIT PROGRAM REPRESENTATIVE PRIOR TO THE FIELD PRE-CONSTRUCTION CONFERENCE.
- NOTIFY COA TEMPORARY TRAFFIC CONTROL REPRESENTATIVE PRIOR TO PLACEMENT OF TEMPORARY TRAFFIC CONTROLS. ALL PROPOSED PHASING OF CONTROLS MUST BE INDICATED ON APPROVED TEMPORARY TRAFFIC CONTROL PLAN AND SEALED BY PROFESSIONAL ENGINEER.
- PLACE TEMPORARY E/S CONTROLS AND TREE PROTECTION FENCING PRIOR TO BEGINNING ANY EXCAVATION. INSTALL C.I.P. SIGN, IF APPLICABLE.
- HOLD ENVIRONMENTAL PRE-CONSTRUCTION CONFERENCE ON SITE WITH THE CONTRACTOR, OWNER'S REPRESENTATIVE, AND GENERAL PERMIT PROGRAM REPRESENTATIVE AFTER INSTALLATION OF E/S CONTROLS AND TREE PROTECTION FENCING AND PRIOR TO ANY TRENCHING OPERATIONS.
- PLACE TEMPORARY TRAFFIC CONTROL DEVICES.

PROJECT CONSTRUCTION:

- BEGIN CONSTRUCTION. NOTIFY GENERAL PERMIT PROGRAM REPRESENTATIVE A MINIMUM OF 48 HOURS IN ADVANCE OF TRANSITION BETWEEN PHASES.
- CONTACT GENERAL PERMIT OFFICE TO SCHEDULE FIELD INSPECTION PRIOR TO BEGINNING INSTALLATION OF PERMANENT E/S CONTROLS.
- COMPLETE RESTORATION OF ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES FOR THIS PROJECT. (PERMANENT E/S CONTROLS)
- REMOVE TEMPORARY TRAFFIC CONTROL DEVICES RELATED TO WORK AREAS OUTSIDE OF THE STREET.
- HOLD ENVIRONMENTAL POST-CONSTRUCTION CONFERENCE ON SITE WITH THE CONTRACTOR, OWNER'S REPRESENTATIVE, AND GENERAL PERMIT PROGRAM REPRESENTATIVE. ALL PERMANENT E/S CONTROLS MUST BE ACCEPTED BY THE GENERAL PERMIT PROGRAM REPRESENTATIVE. PERMANENT CONTROLS SHALL CONSIST OF REVEGETATION PER DETAILS 602, 604S, AND 609S AS INDICATED ON APPROVED PLANS.
- FOLLOWING FINAL ACCEPTANCE OF PERMANENT E/S CONTROLS BY THE GENERAL PERMIT PROGRAM REPRESENTATIVE, REMOVE TEMPORARY E/S CONTROLS. CLEAN EXISTING STORM DRAINAGE SYSTEMS AS NECESSARY DUE TO CONSTRUCTION OPERATIONS.
- DRESS-UP AND RESTORE ANY AREAS DISTURBED BY REMOVAL OF TEMPORARY E/S CONTROLS DESCRIBED ABOVE.

REQUIRED SUBMITTALS:

SUBMITTALS REQUIRED TO BE APPROVED BY GENERAL PERMIT PROGRAM REPRESENTATIVE INCLUDE: SUBMITTALS TRIGGERED BY CITY OF AUSTIN SERIES 600 SPECIFICATIONS AND RELATED SPECIAL PROVISIONS/SPECIFICATIONS, CONSTRUCTION SCHEDULE, TREE PROTECTION, P-6 AND OTHER ROOT ZONE PROTECTION/MITIGATION MEASURES, DEWATERING PLAN, WATERING SCHEDULE FOR REVEGETATION AREAS, AND ANY VEGETATIVE REPLACEMENT PROPOSALS, IF NOT ALREADY PART OF THE PERMITTED PLAN SET.

CITY OF AUSTIN - STANDARD NOTES
TREE AND NATURAL AREA PROTECTION
(MODIFIED FOR USE ON GENERAL PERMIT PROJECTS)

- ALL TREES AND NATURAL AREAS SHOWN ON PLAN TO BE PRESERVED SHALL BE PROTECTED DURING CONSTRUCTION WITH TEMPORARY MEASURES.
- PROTECTIVE MEASURES SHALL BE INSTALLED ACCORDING TO CITY OF AUSTIN STANDARDS FOR TREE PROTECTION.
- PROTECTIVE MEASURES SHALL BE INSTALLED PRIOR TO THE START OF ANY SITE PREPARATION WORK (CLEARING, GRUBBING OR GRADING), AND SHALL BE MAINTAINED THROUGHOUT ALL PHASES OF THE PROJECT.
- EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED OR MAINTAINED IN A MANNER WHICH DOES NOT RESULT IN SOIL BUILD-UP, COMPACTION OR CUTTING OF CRITICAL ROOT ZONE WITHIN TREE DRIP LINES.
- TREE PROTECTION SHALL COMPLETELY SURROUND THE TREES OR GROUP OF TREES AND WILL BE LOCATED AT THE OUTERMOST LIMIT OF BRANCHES (DRIP LINE). FOR NATURAL AREAS, PROTECTIVE MEASURES SHALL FOLLOW THE LIMIT OF CONSTRUCTION LINE, IN ORDER TO PREVENT THE FOLLOWING:
 - SOIL COMPACTION IN THE ROOT ZONE AREA RESULTING FROM VEHICULAR TRAFFIC OR STORAGE OF EQUIPMENT OR MATERIALS;
 - ROOT ZONE DISTURBANCES DUE TO GRADE CHANGES (GREATER THAN 6 INCHES CUT OR FILL) OR TRENCHING NOT REVIEWED AND AUTHORIZED BY THE GENERAL PERMIT PROGRAM OFFICE OF THE PLANNING AND DEVELOPMENT REVIEW DEPARTMENT;
 - WOUNDS TO EXPOSED ROOTS, TRUNK OR LIMBS BY MECHANICAL EQUIPMENT;
 - OTHER ACTIVITIES DETRIMENTAL TO TREES SUCH AS CHEMICAL STORAGE, CEMENT TRUCK CLEANING, AND FIRES.
- EXCEPTIONS TO INSTALLING PROTECTIVE FENCES AT CRITICAL ROOT ZONES MAY BE PERMITTED IN THE FOLLOWING CASES:
 - WHERE THERE IS TO BE AN APPROVED GRADE CHANGE, IMPERMEABLE PAVING SURFACE, TREE WELL, OR OTHER SUCH SITE DEVELOPMENT, ERECT THE FENCE APPROXIMATELY 2 FEET BEYOND THE AREA DISTURBED;
 - WHERE PERMEABLE PAVING IS TO BE INSTALLED, ERECT THE FENCE AT THE OUTER LIMITS OF THE PERMEABLE PAVING AREA;

- WHERE TREES ARE CLOSE TO PROPOSED BUILDINGS, ERECT THE FENCE NO CLOSER THAN 6 FEET TO THE BUILDING;
- WHERE THERE ARE SEVERE SPACE CONSTRAINTS DUE TO TRACT SIZE, OR OTHER SPECIAL REQUIREMENTS, CONTACT THE GENERAL PERMIT PROGRAM OFFICE AT 974-6330 TO DISCUSS ALTERNATIVES.

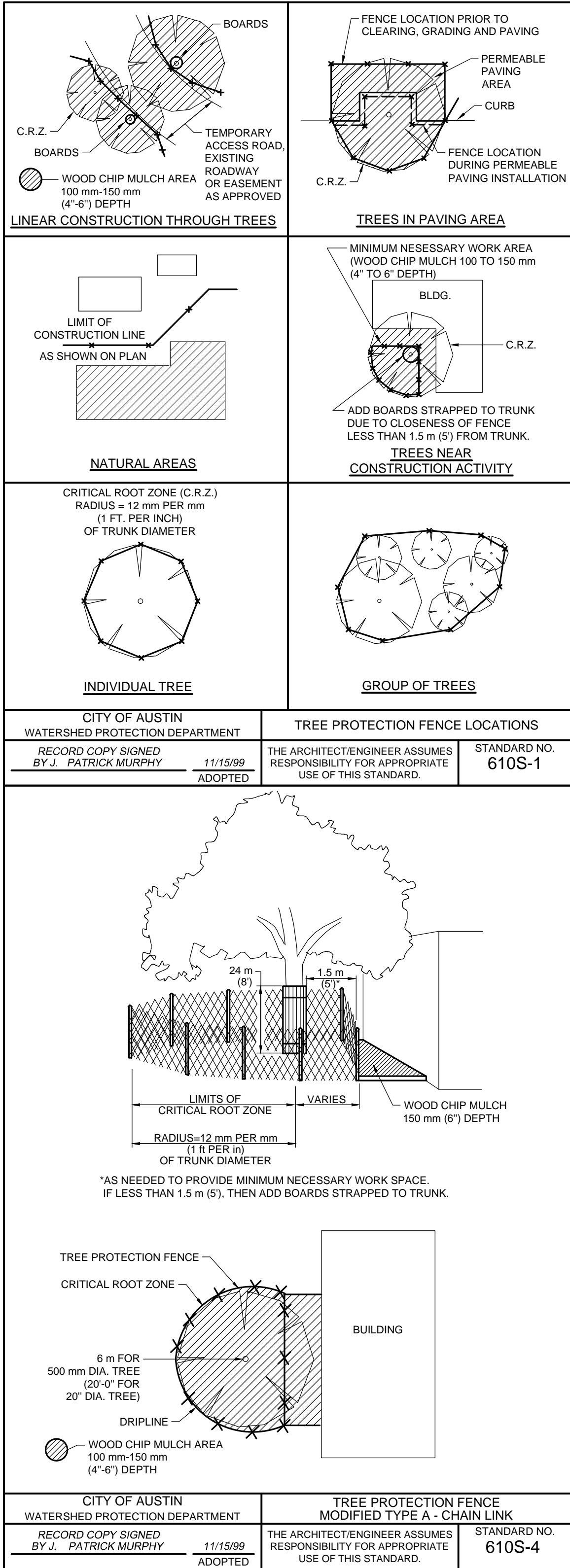
SPECIAL NOTE: FOR THE PROTECTION OF NATURAL AREAS, NO EXCEPTIONS TO INSTALLING FENCES AT THE LIMIT OF CONSTRUCTION LINE WILL BE PERMITTED.

WHERE ANY OF THE ABOVE EXCEPTIONS RESULT IN A FENCE 5 FEET OR CLOSER TO A TREE TRUNK, PROTECT THE TRUNK WITH STRAPPED-ON PLANKING TO A HEIGHT OF 8 FEET (OR TO THE LIMITS OF LOWER BRANCHING) IN ADDITION TO THE REDUCED FENCING.

- WHERE ANY OF THE ABOVE EXCEPTIONS RESULT IN AREAS OF UNPROTECTED ROOT ZONES, THOSE AREAS SHOULD BE COVERED WITH 12 INCHES OF ORGANIC MULCH TO MINIMIZE SOIL COMPACTION DURING CONSTRUCTION. FILTER FABRIC UNDERLAYMENT MAY BE REQUIRED AT DIRECTION OF GENERAL PERMIT PROGRAM REPRESENTATIVE BASED ON SITE CONDITIONS AND CONSTRUCTION ACTIVITIES. MAXIMUM FOUR (4) INCHES DEPTH MAY BE LEFT IN PLACE AFTER CONSTRUCTION WITH APPROVAL FROM THE GENERAL PERMIT PROGRAM REPRESENTATIVE.
- ALL GRADING WITHIN PROTECTED ROOT ZONE AREAS SHALL BE DONE BY HAND OR WITH SMALL EQUIPMENT TO MINIMIZE ROOT DAMAGE. PRIOR TO GRADING, RELOCATE PROTECTIVE FENCES TO 2 FEET BEHIND THE GRADE CHANGE AREA.
- ANY ROOTS EXPOSED BY CONSTRUCTION ACTIVITY SHALL BE PRUNED FLUSH WITH THE SOIL. BACKFILL ROOT AREAS WITH GOOD QUALITY TOP SOIL AS SOON AS POSSIBLE. IF EXPOSED ROOT AREAS ARE NOT BACKFILLED WITHIN 2 DAYS, COVER THEM WITH ORGANIC MATERIAL IN A MANNER WHICH REDUCES SOIL TEMPERATURE AND MINIMIZES WATER LOSS DUE TO EVAPORATION.
- PRIOR TO EXCAVATION OR GRADE CUTTING WITHIN TREE DRIPLINES, MAKE A CLEAN CUT BETWEEN THE DISTURBED AND UNDISTURBED ROOT ZONES WITH A ROCK SAW OR SIMILAR EQUIPMENT TO MINIMIZE DAMAGE TO REMAINING ROOTS.
- TREES MOST HEAVILY IMPACTED BY CONSTRUCTION ACTIVITIES SHOULD BE WATERED DEEPLY ONCE A WEEK DURING PERIODS OF HOT, DRY WEATHER. TREE CROWNS SHOULD BE SPRAYED WITH WATER PERIODICALLY TO REDUCE DUST ACCUMULATION ON THE LEAVES.
- ANY TRENCHING REQUIRED FOR THE INSTALLATION OF LANDSCAPE IRRIGATION SHALL BE PLACED AS FAR FROM EXISTING TREE TRUNKS AS POSSIBLE.
- NO LANDSCAPE TOPSOIL DRESSING GREATER THAN 4 INCHES SHALL BE PERMITTED WITHIN THE DRIPLINE OF TREES. NO SOIL IS PERMITTED ON THE ROOT FLARE OF ANY TREE.
- PRUNING TO PROVIDE CLEARANCE FOR STRUCTURES, VEHICULAR TRAFFIC AND EQUIPMENT SHALL TAKE PLACE BEFORE CONSTRUCTION BEGINS. SEE NOTE FOUR (4) OF SUPPLEMENTAL TREE PROTECTION NOTES FOR ADDITIONAL REQUIREMENTS.
- ALL FINISHED PRUNING MUST BE DONE ACCORDING TO RECOGNIZED, APPROVED STANDARDS OF THE INDUSTRY (REFERENCE THE NATIONAL ARBORIST ASSOCIATION PRUNING STANDARDS FOR SHADE TREES AVAILABLE ON REQUEST FROM THE GENERAL PERMIT PROGRAM OFFICE).
- DEVIATIONS FROM THE ABOVE NOTES MAY BE CONSIDERED ORDINANCE VIOLATIONS IF THERE IS SUBSTANTIAL NONCOMPLIANCE OR IF A TREE SUSTAINS DAMAGE AS A RESULT.
- TREES APPROVED FOR REMOVAL SHALL BE REMOVED IN A MANNER WHICH DOES NOT IMPACT TREES TO BE PRESERVED.

SUPPLEMENTAL TREE PROTECTION NOTES

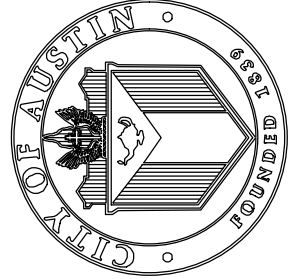
- ALL TREE PROTECTION MUST COMPLY WITH CITY OF AUSTIN REQUIREMENTS AS OUTLINED IN THE ENVIRONMENTAL CRITERIA MANUAL AND AS INDICATED BY STANDARD COA NOTES AND DETAILS INCLUDED WITHIN THIS DOCUMENT SET.CONTRACTOR SHALL INSTALL PROTECTION PRIOR TO PRE-CONSTRUCTION CONFERENCE, MAKE ADJUSTMENTS TO PROTECTION AS DIRECTED BY THE GPP REPRESENTATIVE, AND MAINTAIN PROTECTION UNTIL PROJECT IS COMPLETE.
- TYPE AND LOCATION OF ALL TREE PROTECTION MUST BE APPROVED IN THE FIELD BY THE GENERAL PERMIT PROGRAM (GPP) REPRESENTATIVE PRIOR TO CONSTRUCTION.
- WALK-THROUGH: CONTRACTOR SHALL CONDUCT WALK-THROUGH MEETING WITH GENERAL PERMIT PROGRAM REPRESENTATIVE PRIOR TO PERFORMING ANY PRUNING ACTIVITIES ON TREES IN PROJECT AREA. PURPOSE OF WALK-THROUGH WILL BE TWOFOLD. ONE PURPOSE WILL BE TO DETERMINE THE MINIMUM AMOUNT OF PRUNING NECESSARY TO ALLOW CONSTRUCTION WORK TO BE COMPLETED. SECOND PURPOSE WILL BE TO DETERMINE AREAS OF PROJECT IN WHICH EXHAUST DIVERTERS WILL BE REQUIRED ON CONSTRUCTION EQUIPMENT TO PREVENT SCORCHING OF EXISTING TREES.
- ALL PRUNING MUST BE PERFORMED IN ACCORDANCE WITH ANSI A300 (PART 1) - 2001 AMERICAN NATIONAL STANDARD FOR TREE CARE OPERATIONS (PRUNING), OR LATEST APPROVED VERSION. THIS DOCUMENT MAY BE OBTAINED ONLINE FOR A FEE AT WWW.ANSI.ORG.
- PRUNING SHALL BE DONE WITH CLEAN, SHARP TOOLS. TO PREVENT BARK TEARS, THE WEIGHT OF THE BRANCH SHALL BE REMOVED BEFORE MAKING FINAL PRUNING CUT.
- ALL PRUNING SHALL PRESERVE THE NATURAL CHARACTER OF THE TREE.
- ONLY COLLAR CUTS ARE ACCEPTABLE. NO FLUSH CUTS OR STUB CUTS WILL BE ALLOWED.
- ALL BRANCHES THAT ARE BROKEN OR DAMAGED DURING CONSTRUCTION SHALL BE REMOVED.
- PRUNING CUTS OR DAMAGED AREAS ON AN OAK TREE SHALL BE PAINTED WITHIN FIVE MINUTES WITH A STANDARD TREE WOUND DRESSING. TREE WOUND DRESSING SHALL BE EITHER TREKOTE AEROSOL OR TANGLEFOOT PRUNING SEALER (OR APPROVED EQUAL). THIS ALSO APPLIES TO WOUNDS CREATED BY CONSTRUCTION VEHICLES OR EQUIPMENT. ALL PRUNING MUST BE IN ACCORDANCE WITH COA OAK WILT PREVENTION POLICY.
- ANY TREE ROOTS THAT ARE EXPOSED, CUT, OR TORN DURING CONSTRUCTION ACTIVITY SHALL BE PRUNED FLUSH WITH THE SURROUNDING SOIL. (REFER ALSO TO NUMBER 9 OF THE TREE AND NATURAL AREA PROTECTION NOTES INCLUDED IN THIS PLAN SET.)
- ALL TRENCHING WITHIN THE CRITICAL ROOT ZONE OF A TREE TO BE PRESERVED WILL BE SAW CUT OR EXCAVATED BY HAND, AS APPROVED BY THE GENERAL PERMIT PROGRAM ARBORIST.
- REFER TO ENVIRONMENTAL CRITERIA MANUAL APPENDIX P-6 FOR FURTHER REMEDIAL TREE CARE REQUIREMENTS. P-6 REMEDIAL TREE CARE WILL BE COORDINATED WITH AND APPROVED BY THE GENERAL PERMIT PROGRAM ARBORIST FOR PROJECTS PERMITTED THROUGH THE GENERAL PERMIT PROGRAM.



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GENERAL PERMIT OFFICE
TREE PROTECTION &
ENVIRONMENTAL NOTES
CITY OF AUSTIN STANDARD NOTES AND DETAILS

REVISIONS		REMARKS
NO.	DATE	BY

ESD
ENGINEERING SERVICES
DIVISION

GP-2019-____.AWU

CE002 8 OF 24

CURVE DATA					
CURVE NO.	RADIUS	LENGTH	DIRECTION	START PT.	END PT.
C2	550.00'	148.65'	S70° 26' 40"E	STA. 10+59.73 N. 10030935.00 E. 3110709.14	STA. 12+08.38 N. 10030885.39 E. 3110848.79

226.903 ACRES
SANTIAGO DEL VALLE GRANT
ABSTRACT NO. 24
CITY OF AUSTIN
SALT SPRINGS DRIVE
78744
TCAD 0334000126

STA. 9+05.07, RWL-A
INSTALL:
1 - 8" GV (MJxMJ),
ID. 854406

STA. 12+05.07, RWL-A
INSTALL:
15x15' RECEIVING PIT

STA. 12+20.00, RWL-A
INSTALL:
130 LF - 16" STEEL ENCASEMENT
3/8" THICK, ASTM A134 WITH
CASING SPACERS & FACTORY
END SEALS
END 15x15' RECEIVING PIT

STA. 9+00.00, RWL-A
INSTALL:
1 - 16"x8" REDC
ECC REDUCER, FLAT ON TOP
OF PIPE

STA. 10+59.73, RWL-A
POINT OF CURVATURE
15' ELEC. & TELECOMMUNICATION
EASEMENT PER DOC. NO. 201700126

STA. 12+08.38, RWL-A
POINT OF TANGENCY

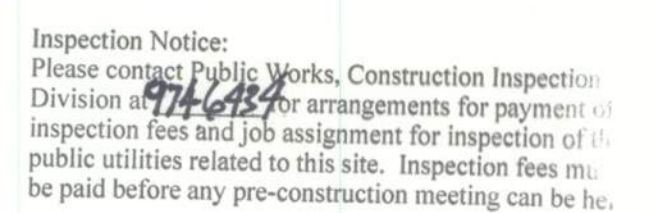
LOT 2, BLOCK A
GOODNIGHT RANCH
PHASE ONE, SECTION THREE
AUSTIN GOODNIGHT RANCH L.P.
CHARLES MERLE DRIVE 78747
TCAD 0438010107

NUCKOLS CROSSING ROAD
(OF-WAY VARIES)

CONTRACTOR SHALL
REMOVE AND REPLACE
±34 LF EXIST. METAL
BEAM GUARD RAIL

MATCHLINE - STA. 8+50

MATCHLINE - STA. 12+50



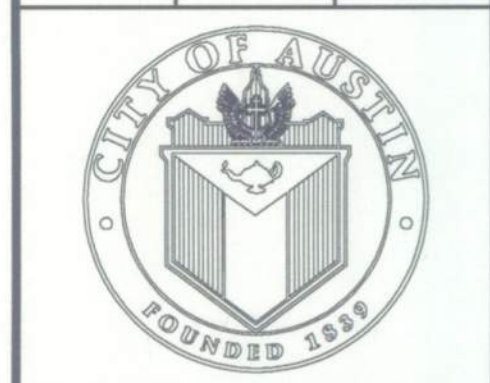
Austin Water Utility
Brittner

STATE OF TEXAS
 CHRISTOPHER EVANS
 109857
 LICENSED
 PROFESSIONAL ENGINEER
 12/05/2019

THE SEAL APPEARING ON THIS
DOCUMENT WAS AUTHORIZED BY
CHRISTOPHER J. EVANS
LIC. # 109857

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FOR THEIR INTENDED PURPOSES,
INCLUDING CONSTRUCTION, BUT ARE NOT
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FORMAL CITY APPROVAL.

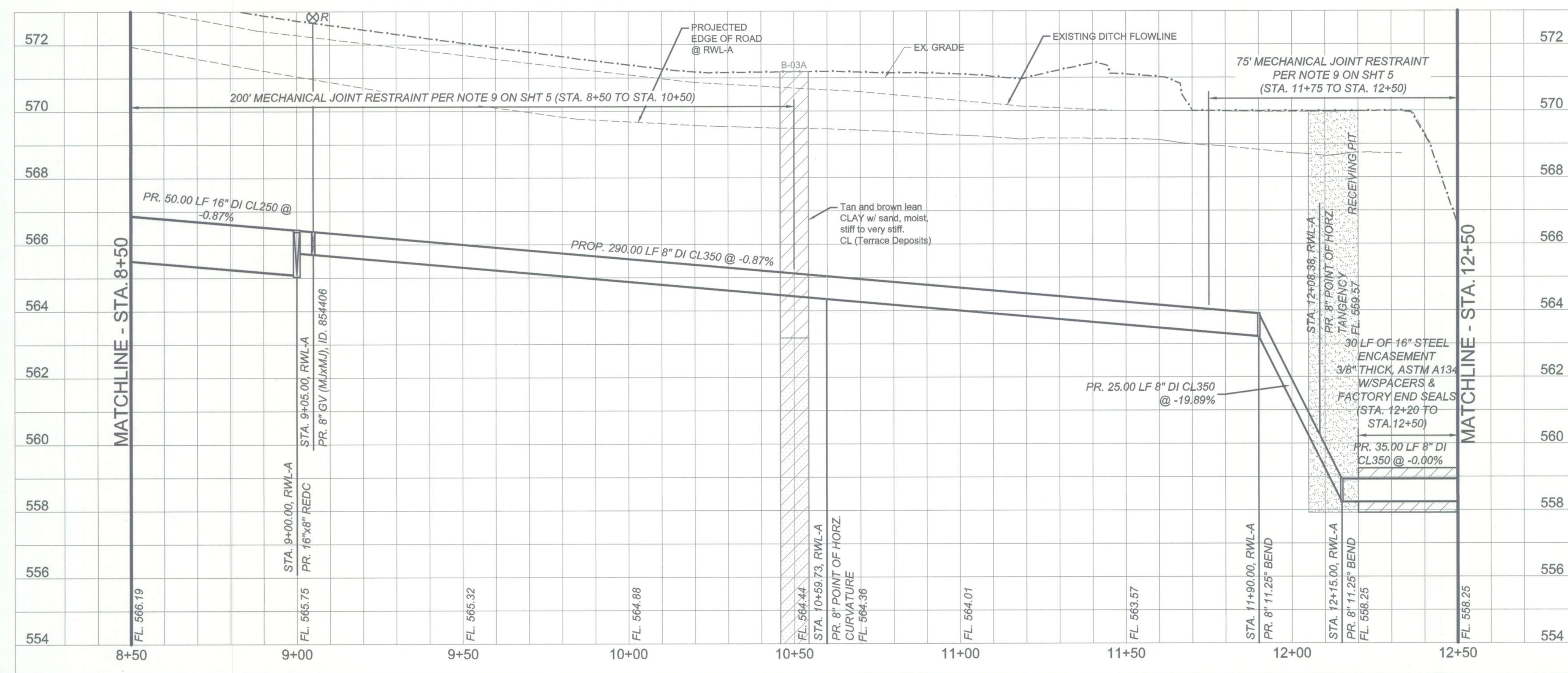
CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION
ONION CREEK DISTRICT PARK
RECLAIMED MAIN PHASE 2
RECLAIMED WATER PLAN & PROFILE
RWL-A - STA. 8+50 - STA. 12+50

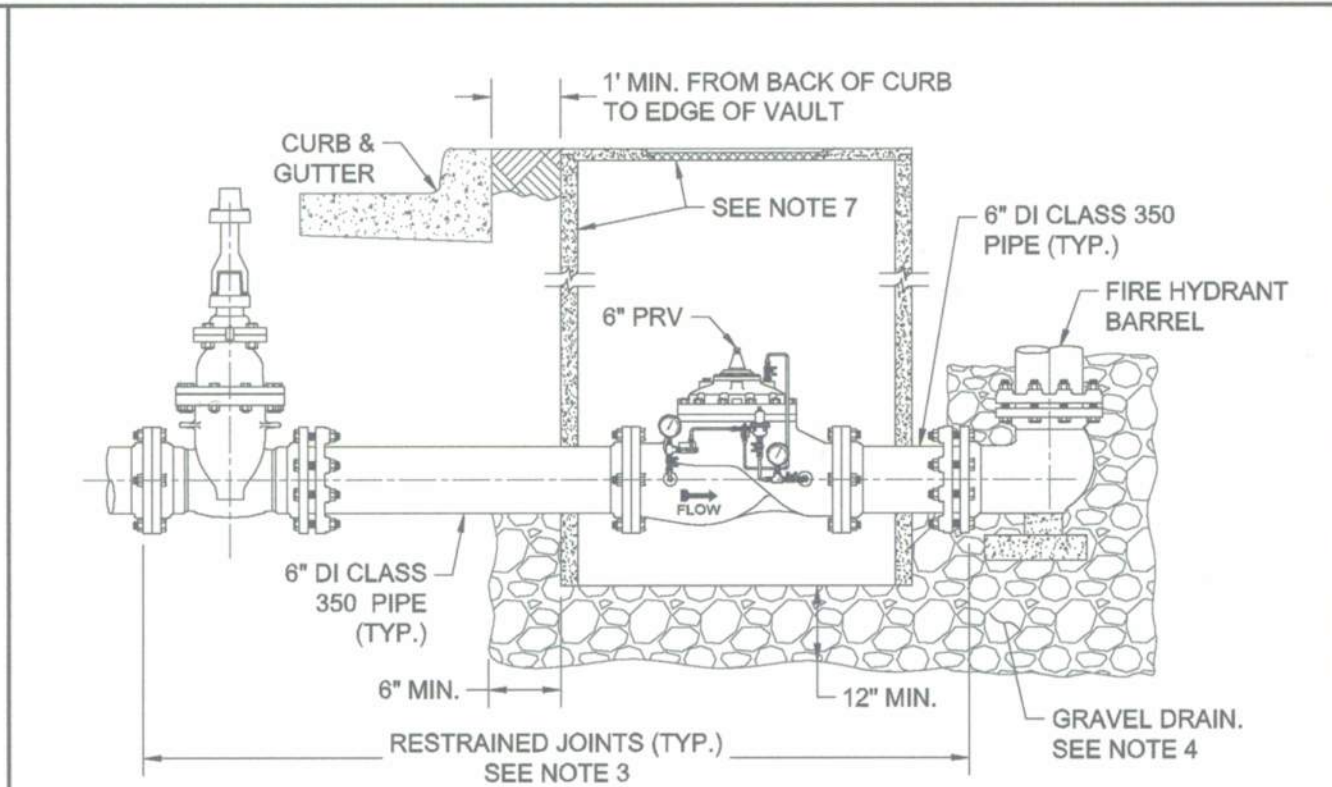
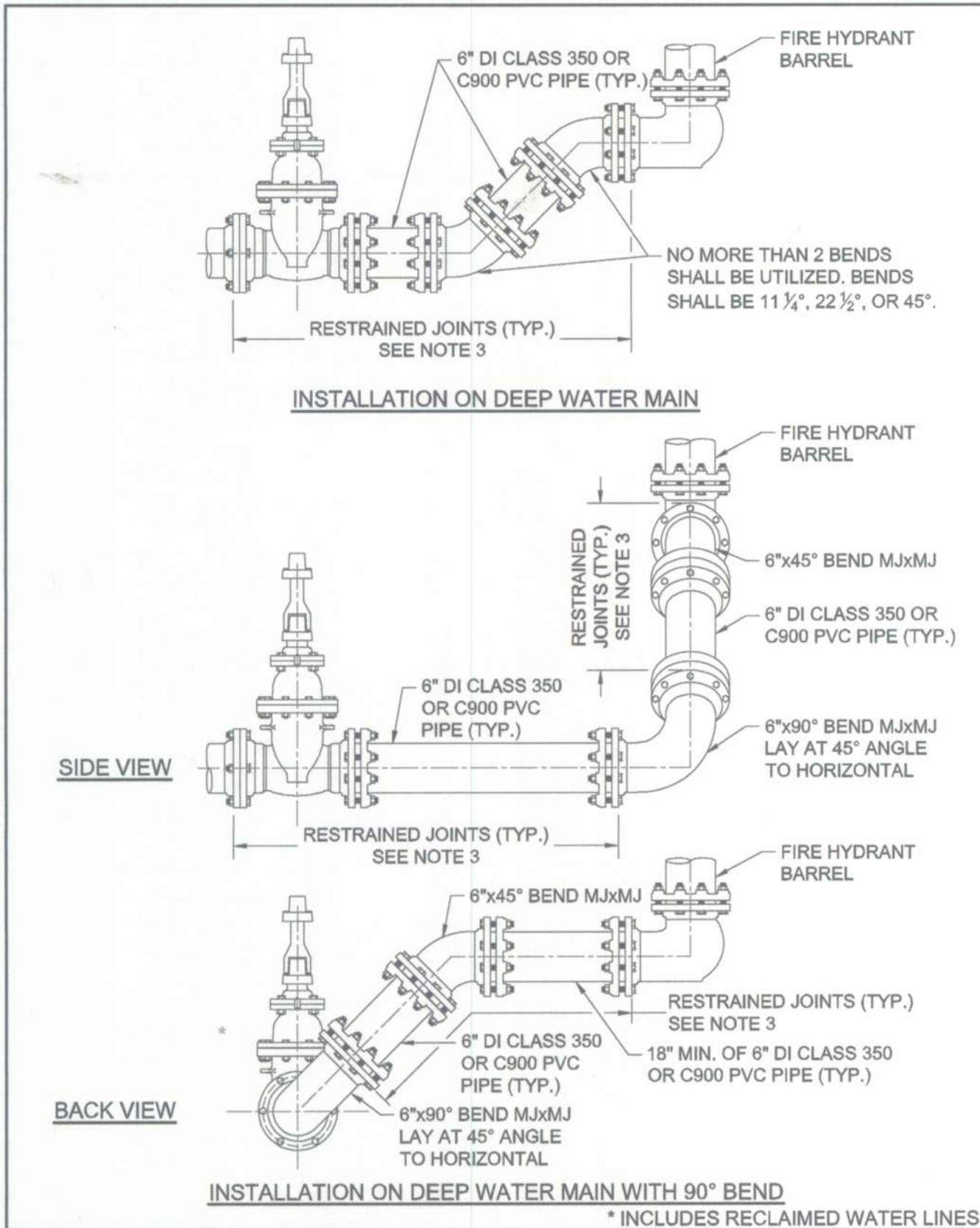


0 20 40
HORIZONTAL SCALE IN FEET

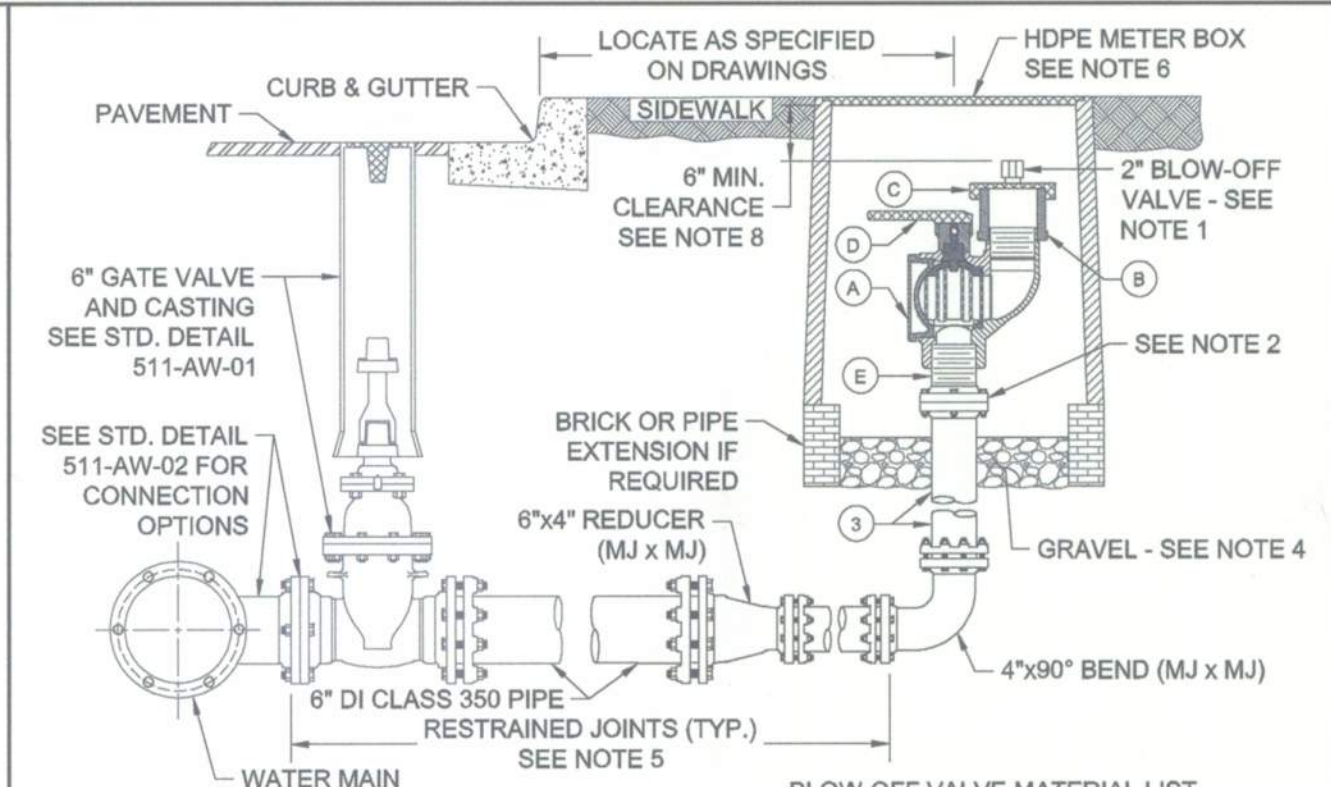
0 2 4
VERTICAL SCALE IN FEET

GP-2019-____.AWU

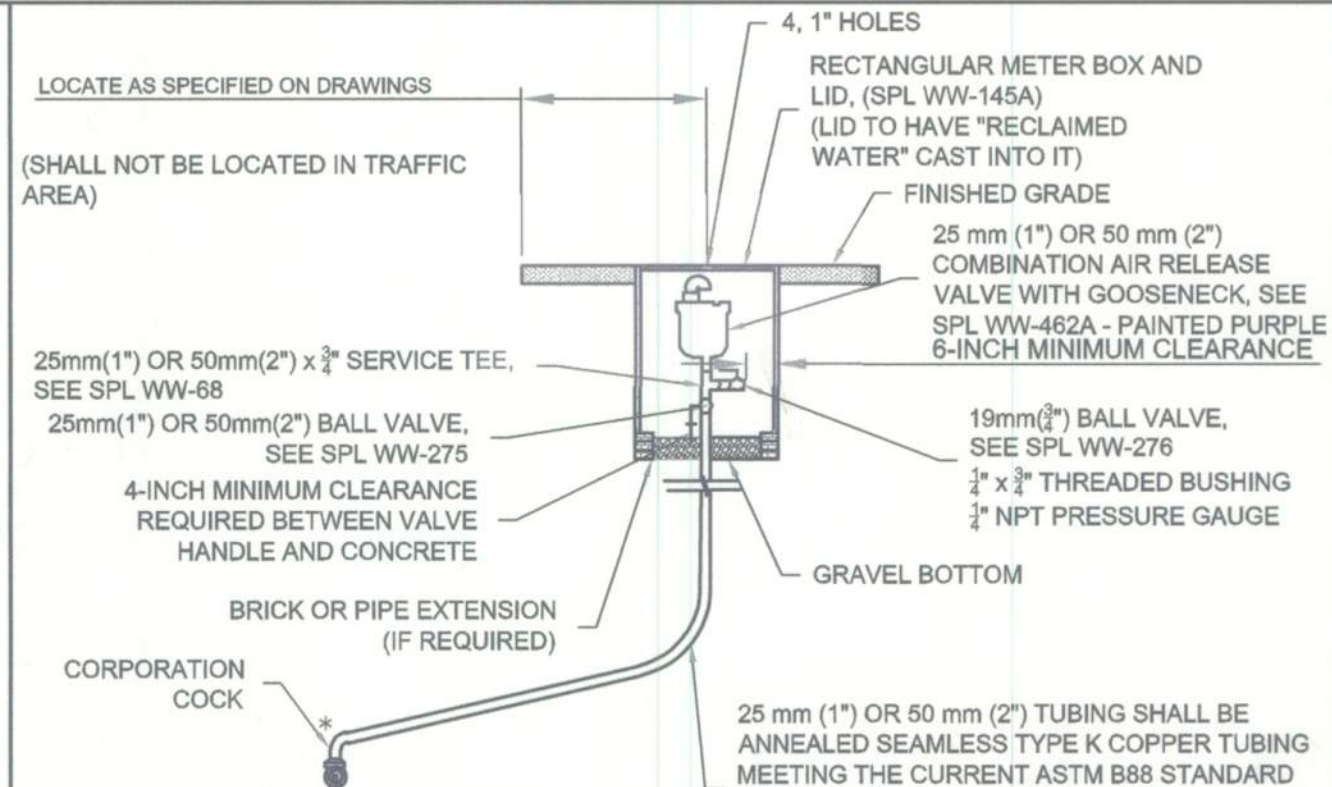




- NOTES: APPLICABLE TO ALL INSTALLATION TYPES.
1. NO PART OF A HYDRANT OR ITS NOZZLE CAPS SHALL BE WITHIN 6" OF ANY SIDEWALK OR PEDESTRIAN RAMP. ANY FIRE HYDRANT PLACED NEAR A STREET CORNER SHALL BE LOCATED OUTSIDE THE CURVE RADIUS AND A MINIMUM OF 4' FROM RAMP.
 2. ONE BARREL EXTENSION NOT EXCEEDING 2' LENGTH MAY BE INSTALLED DIRECTLY BELOW THE FIRE HYDRANT IN ORDER TO MEET THE REQUIRED BURY DEPTH OF 4' - 5'. BREAK AWAY BOLTS (SHOE TYPES) SHALL BE PROPERLY SPACED AND PLACED.
 3. FIRE LINE SHALL HAVE ALL JOINTS RESTRAINED FROM MAIN TO FIRE HYDRANT. JOINTS SHOWN MAY VARY. SEE SPL WW-27, WW-27A, AND WW-27B FOR RESTRAINT OPTIONS.
 4. BELOW EACH HYDRANT, A DRAINAGE PIT 24" IN DIAMETER AND 12" DEEP SHALL BE EXCAVATED AND FILLED WITH COMPACTED COARSE GRAVEL OR BROKEN STONE MIXED WITH COARSE SAND UNDER AND AROUND THE BOWL OF THE HYDRANT, AND TO A LEVEL 12" ABOVE THE HYDRANT DRAIN OPENING (SEE STD. SPEC. 510). THE HYDRANT DRAINAGE PIT SHALL NOT BE CONNECTED TO A SANITARY SEWER. THE DRAIN GRAVEL SHALL BE COVERED WITH FILTER FABRIC PER STD. SPEC. 620S. FOR PRV, GRAVEL SHALL EXTEND UNDER THE PRV VAULT 12" MIN. DEPTH UNDER THE VAULT AND 6" MIN. BEYOND VAULT.
 5. FOR FIRE HYDRANT LEADS AT A MAIN OUTLET LARGER THAN 6" DIAMETER, OUTLET SHALL BE FLANGED AND A FLG x FLG REDUCER SHALL BE INSTALLED DIRECTLY ON THE OUTLET.
 6. WRAP 8 MIL. POLY-FILM WRAP ON ALL BURIED PIPE AND FITTINGS.
 7. FOR HYDRANTS WITH PRV: CLASS III RCP VAULT 60" MIN. I.D. WITH REINFORCED PRECAST CONCRETE LID (ASHTO H-20 LOADING) WITH COA FRAME AND 32" COVER WITH LETTERING MODIFIED FOR WATER.



- NOTES:
1. 2" BLOW-OFF VALVE FOR RECLAIMED WATER PER SPL WW-3A.
 2. 2"x9" 125# REDUCING COMPANION FLANGE (MANUFACTURED BY SMITH-COOPER INTERNATIONAL OR EQUIVALENT.)
 3. 4" DI CLASS 350 PIPE (PE x FLG).
 4. 6" MIN. DEPTH COMPACTED COARSE GRAVEL OR BROKEN STONE.
 5. BLOW-OFF VALVE SHALL HAVE ALL JOINTS RESTRAINED FROM MAIN TO BLOW-OFF VALVE. JOINTS SHOWN MAY VARY. SEE SPL WW-27, WW-27A, AND WW-27B FOR RESTRAINT OPTIONS.
 6. HDPE METER BOX SHALL BE RECTANGULAR, COMMERCIAL METER BOX FOR RECLAIMED WATER PER SPL WW-145A.
 7. METER BOX AND BLOW-OFF VALVE SHALL NOT BE LOCATED IN A SIDEWALK, DRIVEWAY, PEDESTRIAN WAY OR TRAFFIC WAY. BLOW-OFF VALVES SHALL BE LOCATED AS SHOWN ON APPROVED PLANS.
 8. BLOW-OFF VALVE MUST BE FREE TO MOVE VERTICALLY WITHIN THE METER BOX, IN ORDER TO PREVENT THE TRANSMISSION LOADS TO THE BLOW-OFF VALVE.
- RECLAIMED WATER:** ALL RECLAIMED PVC PIPE SHALL BE MANUFACTURED PURPLE PIPE. HDPE PIPE SHALL BE MANUFACTURED WITH PURPLE STRIPES. ALL OTHER PIPE AND APPURTENANCES SHALL BE MANUFACTURED PURPLE IF AVAILABLE. ALL PIPE AND FITTINGS THAT ARE NOT AVAILABLE FROM THE MANUFACTURER IN PURPLE SHALL BE PAINTED PURPLE PER SPL WW-3C. ALL BURIED DI AND CI PIPE AND FITTINGS SHALL ALSO BE WRAPPED IN PURPLE POLYETHYLENE PER SPL WW-27D. ALL COVERS SHALL HAVE "RECLAIMED WATER" CAST INTO THEM.



- NOTES:
1. ALL RECLAIMED WATER PIPING AND APPURTENANCES TO BE MANUFACTURED PURPLE, WRAPPED IN PURPLE POLYETHYLENE PER SPL WW-27D OR PAINTED PURPLE PER SPL WW-3C.
 2. 6-INCH MINIMUM CLEARANCE REQUIRED BETWEEN HORIZONTAL BALL VALVE AND VALVE BOX.
 3. IF INSTALLED IN AN UNDEVELOPED AREA, INSTALL A 100 mm (4") DIA. STEEL PIPE WHICH HAS BEEN PAINTED PURPLE (SEE NOTE 2) AND FILLED WITH CONCRETE (STEEL PIPE SHALL BE 1.8 m (6') LONG, BURIED IN CLASS A CONCRETE OR CLSM 0.9 m (3') BELOW FINAL GRADE AND EXTENDING 0.9 m (3') ABOVE FINAL GRADE). FLEXSTAKE SOIL ANCHOR DELINEATOR OR EQUIVALENT 1.8 m (6'), PURPLE, SHALL BE PLACED WITHIN 0.9 m (3') OF METER BOX ON THE VEHICULAR ACCESS SIDE OF METER BOX OR AS DIRECTED BY AWW.
 4. THE AIR VALVE AND ASSOCIATED PIPING SHALL BE INSTALLED ABOVE THE HIGHEST ELEVATION OF THE RECLAIMED WATER MAIN. AIR VALVE PIPING, FROM THE RECLAIMED WATER MAIN TO THE AIR VALVE, SHALL MAINTAIN A CONSTANT RISE, WITH NO DIPS, TO THE TOP OF THE GROUND.
 5. AIR VALVE SHALL BE INSTALLED IN THE RIGHT-OF-WAY BUT NOT IN A DRIVEWAY, SIDEWALK OR AREAS OF VEHICULAR TRAFFIC WITHOUT THE APPROVAL FROM AUSTIN WATER UTILITY

CITY OF AUSTIN AUSTIN WATER	FIRE HYDRANT
RECORD COPY SIGNED BY KATHI L FLOWERS	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.
05/18/2016 ADOPTED	STANDARD NO. 511-AW-02 2 OF 3

CITY OF AUSTIN AUSTIN WATER	FIRE HYDRANT
RECORD COPY SIGNED BY KATHI L FLOWERS	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.
05/18/2016 ADOPTED	STANDARD NO. 511-AW-02 3 OF 3

CITY OF AUSTIN AUSTIN WATER	2" NON - TRAFFIC RATED, RECLAIMED BLOW-OFF VALVE
RECORD COPY SIGNED BY KATHI L FLOWERS	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.
05/18/2016 ADOPTED	STANDARD NO. 511-AW-06 1 OF 1

CITY OF AUSTIN AUSTIN WATER	RECLAIMED WATER CONNECTION 25 mm (1") OR 50 mm (2") RECLAIMED WATER AUTOMATIC AIR RELEASE VALVE-NON-TRAFFIC RATED
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. SP511S-1BR

REVIEWED
JAN 15 2020
Austin Water Utility
[Signature]

NOTE:
NO FIRE HYDRANTS ARE TO BE INSTALLED WITH THIS PROJECT. THE
SOLE PURPOSE OF FIRE HYDRANT DETAIL 511-AW-02 INCLUDED IN
THIS PLAN SET IS TO PROVIDE REFERENCE TO THE VARIOUS
CONNECTION OPTIONS TO THE MAIN AS REFERENCED IN 2"
NON-TRAFFIC RATED RECLAIMED BLOW-OFF VALVE DETAIL 511-AW-06.

REVISION DESCRIPTION

DATE	REV. BY	NO.

STATE OF TEXAS
109857
PROFESSIONAL ENGINEER
2/10/2019
THE SEAL APPEARING ON THIS
DOCUMENT WAS AUTHORIZED BY
CHRISTOPHER J. EVANS
LIC. # 109857

I CERTIFY THAT THESE DRAWINGS ARE
COMPLETE, ACCURATE AND ADEQUATE
FOR THEIR INTENDED PURPOSES,
INCLUDING CONSTRUCTION, BUT ARE NOT
AUTHORIZED FOR CONSTRUCTION UNTIL
FORMAL CITY APPROVAL.

CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION
UNION CREEK DISTRICT PARK
RECLAIMED MAIN PHASE 2
RECLAIMED WATER DETAILS
SHEET 2 OF 2

CITY OF AUSTIN
FOUNDED 1859

NOTES	NAME	DATE
SURVEY BY	QMD	03/2018
DRAWN BY	CE	05/2019
DESIGNED BY	CE	05/2019
CHECKED BY	BA	05/2019
REVIEWED BY	ESD	05/2019

ESD
ENGINEERING SERVICES
DIVISION

GP-2019-____.AWU

CU502 16 OF 24

BARRICADING SUMMARY TABLE

STREETS									
STREET	CLASSIFICATION	PROTECTION	STREET FROM	STREET TO	PLANNED IMPROVEMENTS	TRAFFIC CONTROL PLAN SHEET / DETAIL	ALLOWED BARRICADING HOURS	DURATION (*)	COMMENTS
NUCKOLS CROSSING RD	RESIDENTIAL	NONE	GRELLE LANE	VERTEX BOULEVARD	PROPOSED RECLAIMED WATER LINE	CT-101	MON-FRI 9AM TO 4PM; WEEKENDS 7AM TO 7PM		
(*) PRIOR TO APPROVAL OF ROW PERMIT CONTRACTOR SHALL COMPLETE THE DURATION COLUMN OF THIS TABLE BASED UPON THE PROJECT SEQUENCING REQUIREMENTS AND PROPOSED MEANS AND METHODS FOR CONSTRUCTING THE PROJECT.									

INTERSECTIONS					
STREET INTERSECTION	PLANNED IMPROVEMENTS	TRAFFIC CONTROL PLAN SHEET / DETAIL	ALLOWED BARRICADING HOURS	DURATION (*)	COMMENTS
(*) PRIOR TO APPROVAL OF ROW PERMIT CONTRACTOR SHALL COMPLETE THE DURATION COLUMN OF THIS TABLE BASED UPON THE PROJECT SEQUENCING REQUIREMENTS AND PROPOSED MEANS AND METHODS FOR CONSTRUCTING THE PROJECT.					

RIGHT OF WAY MANAGEMENT STANDARD NOTES

1. FOR RIGHT OF WAY VIOLATIONS INCLUDING BUT NOT LIMITED TO WORKING WITHOUT A PERMIT OR AN EXPIRED PERMIT WITHIN THE CITY OF AUSTIN ROW AN INVESTIGATION FEE WILL BE ASSESSED FOR EACH OFFENSE UNTIL THE VIOLATION IS CORRECTED. FOLLOWING IS THE INVESTIGATION FEE SCHEDULE FOR VIOLATIONS OF PUBLIC SAFETY:

A. NO OR EXPIRED PERMIT = EQUAL TO THE COST OF THE PERMIT

B. VIOLATION OF PERMIT CONDITIONS, RESTRICTION LIMITS, TIMES AND LOCATIONS ON ROW PERMIT = \$250

C. IMPROPER ADVANCE WARNING SIGN = \$250

D. IMPROPER USE OF DEVICE = \$250

E. FAILURE TO CORRECT DEFICIENCY = \$500

F. RESTRICTING TRAFFIC DURING PEAK HOURS = EQUAL TO THE COST OF THE PERMIT

G. MULTIPLE VIOLATIONS = UP TO A 4 DAY SUSPENSION OF WORK
2. CONTRACTORS AND THEIR SUBCONTRACTORS MUST BE LICENSED BY THE CITY OF AUSTIN FOR CONDUCTING WORK WITHIN THE RIGHT OF WAY.
3. CONTRACTOR MUST OBTAIN RIGHT OF WAY EXCAVATION PERMITS FROM RIGHT OF WAY MANAGEMENT DIVISION, FOR EACH STREET PRIOR TO COMMENCEMENT OF WORK. PLEASE CALL (512) 974-1150 FOR ADDITIONAL INFORMATION REGARDING PERMITTING PROCESS AND THE MOST CURRENT RIGHT OF WAY PERMITTING FEE SCHEDULE.
4. FOR WORK AT SIGNALIZED INTERSECTIONS CONTRACTOR MUST DIAL 311 OR (512) 974-2000 TO INITIATE A CITIZENS SERVICE REQUEST (CSR) FOR THE TRAFFIC SIGNALS GROUP; TO COORDINATE AND GAIN APPROVAL A MINIMUM OF 1 WEEK PRIOR TO CHANGE OF PROJECT LOCATION OR PHASE.
5. CONTRACTOR SHALL HAVE AN APPROVED RIGHT OF WAY PERMIT ON SITE AT ALL TIMES WHEN WORKING IN THE ROW.
6. CONTRACTOR MUST DIAL 311 OR (512) 974-2000 TO INITIATE A CITIZENS SERVICE REQUEST (CSR) FOR RIGHT OF WAY MANAGEMENT A MINIMUM OF 1 WEEK PRIOR TO START OF WORK.
7. CONTRACTOR MUST PROVIDE TRAINING CERTIFICATION OF COMPETENT PERSON THAT WILL BE RESPONSIBLE FOR THE TRAFFIC CONTROL PLACEMENT, TO RIGHT OF WAY INSPECTOR, PRIOR TO START OF WORK.
8. STORAGE OF EQUIPMENT AND/OR MATERIAL WITHIN THE ROW.

A. STORAGE OF EQUIPMENT IN THE ROW IS PERMISSIBLE ONLY WITHIN THE CURRENT LIMITS OF LONG-TERM OR INTERMEDIATE-TERM CLOSURES AND SHALL BE LIMITED TO THE EQUIPMENT REQUIRED FOR THE CURRENT WORK ACTIVITY. THIS EQUIPMENT SHALL BE PROTECTED BEHIND BARRICADES.

B. STORAGE OF MATERIAL IN THE ROW IS PERMISSIBLE ONLY WITHIN THE CURRENT LIMITS OF LONG-TERM OR INTERMEDIATE-TERM CLOSURES AND SHALL BE LIMITED TO NO MORE THAN THE MATERIAL REQUIRED FOR THREE DAYS OF PRODUCTION. THIS MATERIAL SHALL BE PROTECTED BEHIND WATER-FILLED BARRIER.

- C. EQUIPMENT OR MATERIAL STORED IN THE ROW SHALL NOT CREATE A VISUAL BARRIER TO TRAFFIC.
9. NO MORE THAN ONE WORK ZONE LOCATION MAY BE SET AT ONE TIME.
10. PEAK HOURS FOR ARTERIAL AND COLLECTOR STREETS ARE 6AM TO 9AM AND 4PM TO 6 PM, MONDAY THROUGH FRIDAY. NO DISRUPTION OR REDUCTION OF ACTIVE ROADWAY OR PEDESTRIAN ROUTE CAPACITY SHALL OCCUR DURING THESE TIMES, UNLESS ALLOWED BY TRAFFIC CONTROL PLAN.
11. EXCAVATIONS SHALL BE BACKFILLED OR PLATED WHEN REQUIRED TO OPEN IMPACTED TRAFFIC LANES. FOR EXCAVATIONS EXCEEDING A TRANSVERSE WIDTH OF 6 FEET, THE CONTRACTOR SHALL PROVIDE AN ENGINEERED PLATING PLAN TO THE OWNER'S REPRESENTATIVE FOR REVIEW BY RIGHT OF WAY MANAGEMENT DIVISION. PER 804S-4, 5 OF 9.
12. EXISTING SIDEWALKS AND BEATEN PATHS SHALL BE MAINTAINED AS ADA COMPLIANT THROUGHOUT THE PROJECT DURATION WITH THE EXCEPTION OF FINAL FLATWORK AND UTILITY TIE-INS. ANY WORK OVERHEAD WITHIN 25 FEET OF EXISTING PEDESTRIAN PATHWAYS WILL REQUIRE PEDESTRIAN COVERED WALKWAYS. SIDEWALK CLOSURES FOR MAJOR SIDEWALK IMPROVEMENTS HAVE A 14-DAY MAXIMUM PERIOD AND SHALL BE COMPLETED IN PHASES AS TO NOT CLOSE MORE THAN ONE BLOCK AT A TIME.
13. "ROAD WORK AHEAD" AND "CONSTRUCTION ENTRANCE AHEAD" SIGNS MUST BE PLACED AT ALL APPROACHES TO STABILIZED CONSTRUCTION ENTRANCE. SEE THE CITY OF AUSTIN STANDARD DETAILS FOR SIGN SPACING.
14. DRIVEWAYS SHALL NOT BE CLOSED FOR MORE THAN 3 CONSECUTIVE CALENDAR DAYS.
15. ADA COMPLIANCE SHALL BE MAINTAINED THROUGH STABILIZED CONSTRUCTION ENTRANCE.
16. BARRIER SHALL BE PLACED WITHIN GUIDELINES SET FORTH BY THE TMUTCD CRASH TESTING REQUIREMENTS (NCHRP REPORT 350) FOR THAT PARTICULAR BARRIER USED. ANY MODIFICATIONS TO THAT TESTING APPLICATION SHALL BE APPROVED BY THE ENGINEER OF RECORD.
17. FOR OVERNIGHT PROTECTION OF WORK ZONES WITHIN THE ROW, REFER TO CITY OF AUSTIN STANDARD 804S-4 SERIES DETAILS.
18. ALL TEMPORARY PAVING SHALL CONFORM TO CITY OF AUSTIN STANDARD DETAIL 1100S-4.
19. INITIAL AND PHASE CHANGE TRAFFIC CONTROL CHANGES SHALL BE INSTALLED ON THE WEEKENDS.
20. THE NAME AND TELEPHONE NUMBER OF THE CONTRACTOR OR SUPPLIER SHALL BE SHOWN ON THE NON-REFLECTIVE SURFACE OF ALL CHANNELIZING DEVICES IN ACCORDANCE WITH THE CITY OF AUSTIN STANDARD 800 SERIES DETAILS.

STREET PROTECTION & CLASSIFICATION:

STREET PROTECTION AND CLASSIFICATION ARE BASED ON PUBLIC WORKS PROTECTION STREETS LIST DATED APRIL 4, 2019.

NOTES FOR CONTRACTOR:

1. CONTRACTOR TO MAINTAIN ACCESS TO ALL RESIDENT'S DRIVEWAYS DURING CONSTRUCTION.
2. ONE WEEK PRIOR TO CONSTRUCTION, PUBLIC OUTREACH IS REQUIRED AND CONTRACTOR TO CALL THE 311 SYSTEM.
3. EXISTING SIDEWALKS SHALL REMAIN ACCESSIBLE AT ALL TIMES. IF NEEDED, A CONSTRUCTION FENCE SHALL BE PLACED FOR PEDESTRIAN SAFETY.
4. CONTRACTOR MAY USE COA STANDARD DETAIL 804S-1,SHEET 9 OF 9 FOR SIGN SPACING.

MESSAGE BOARD TO READ AS FOLLOWS:

"UTILITY _ _" "STARTING" "FOLLOW _ _"
"WORK _ _ _ _" "# # / # _ _ _" "DETOUR _ _"

(# - THE MONTH AND DAY IN TWO DIGIT NUMBERS)

(MESSAGE BOARD ADVISES OF CONSTRUCTION PLACED A WEEK PRIOR TO CONSTRUCTION, INSTALL NOT TO BLOCK SIDEWALK)

EXCEPTIONS TABLE

NOTE #	EXPLANATION OF EXCEPTION



THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY CHRISTOPHER J. EVANS LIC # 109857

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CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

UNION CREEK DISTRICT PARK
RECLAIMED MAIN PHASE 2

TRAFFIC CONTROL NOTES



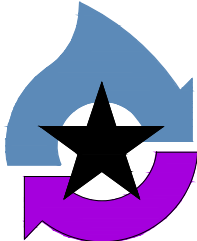
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DRAWN BY	CE	05/2019
DESIGNED BY	CE	05/2019
CHECKED BY	BA	05/2019
REVIEWED BY	ESD	05/2019



ENGINEERING SERVICES
DIVISION

GP-2019-____.AWU

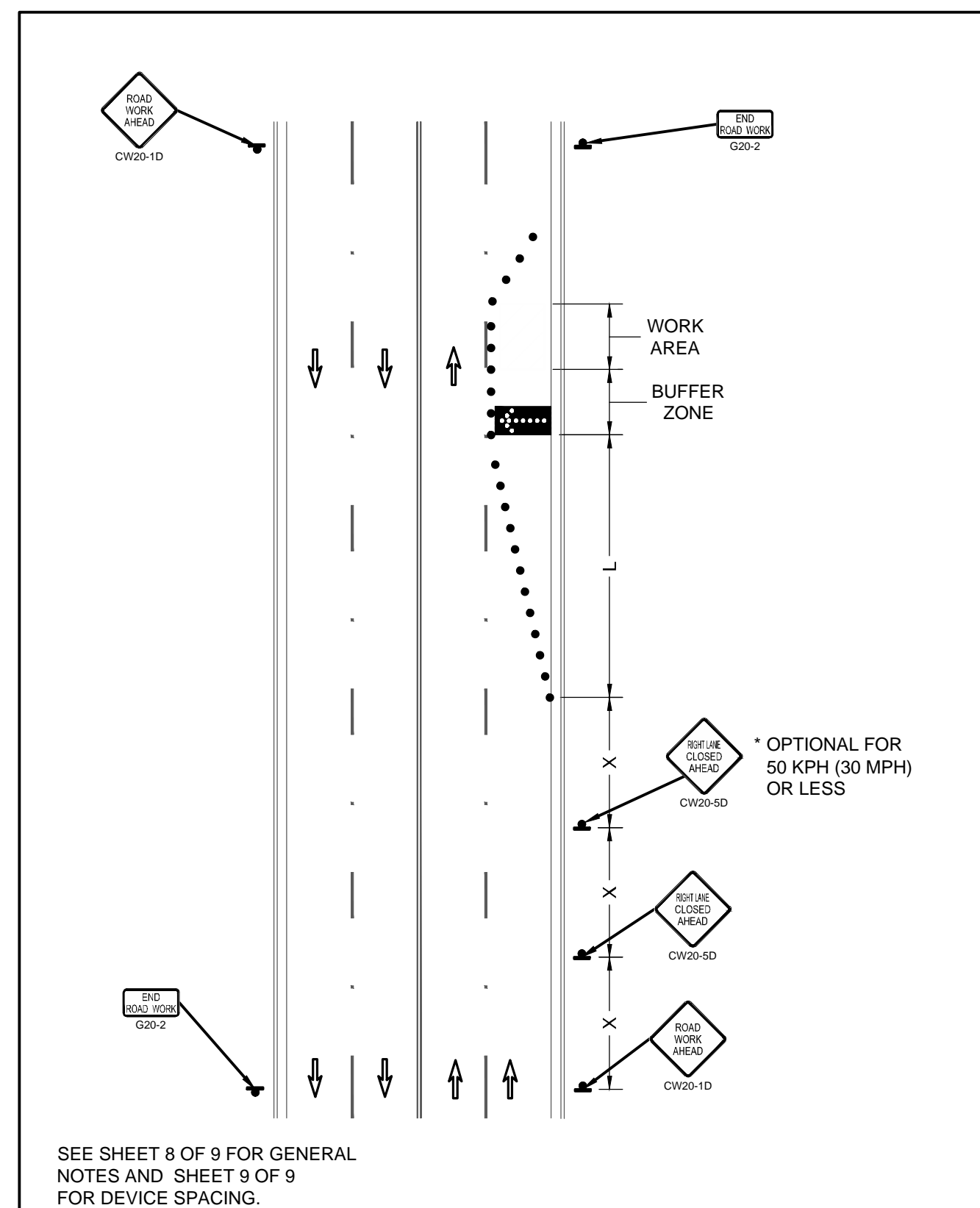
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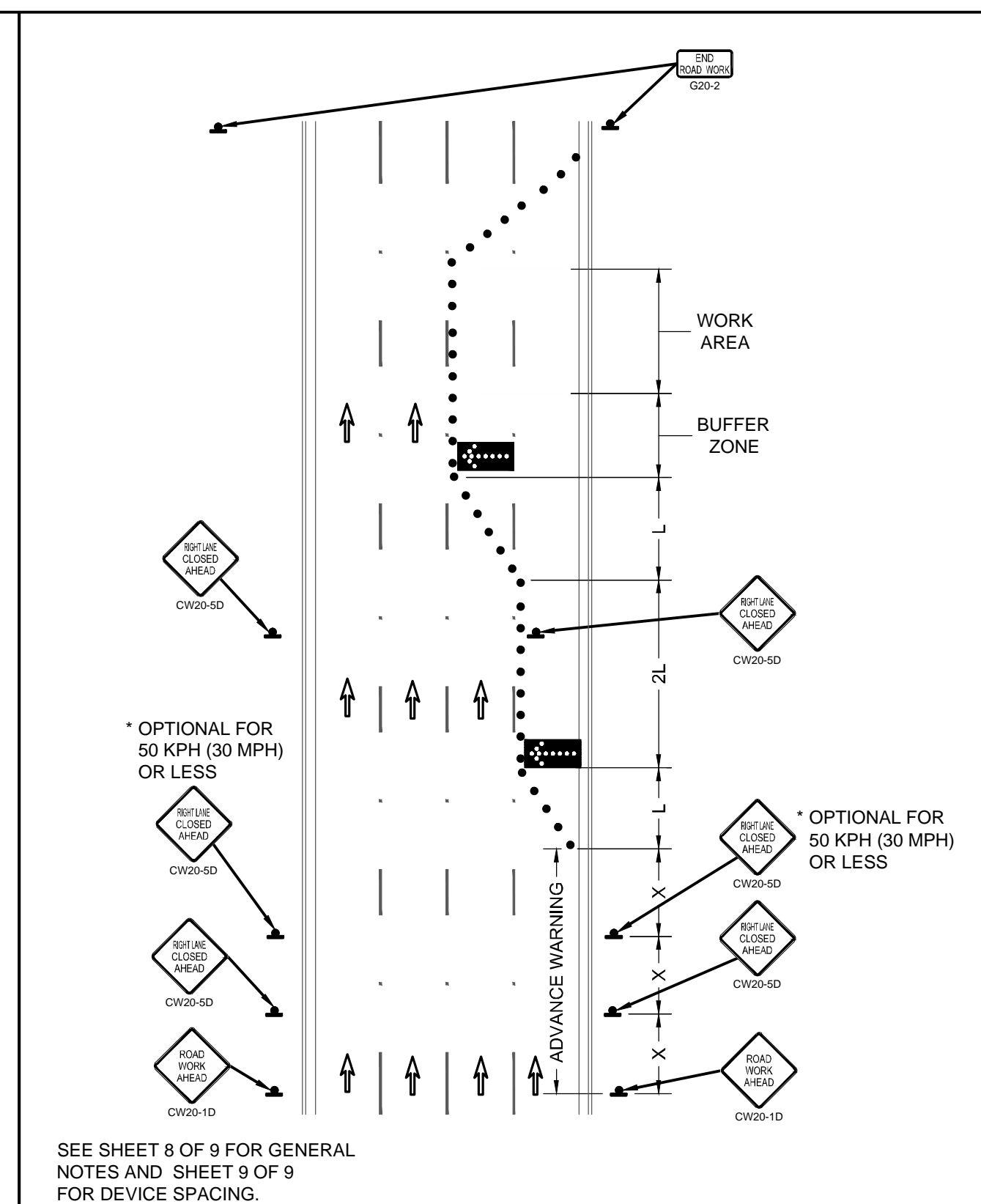
EVANS, CHRISTOPHER

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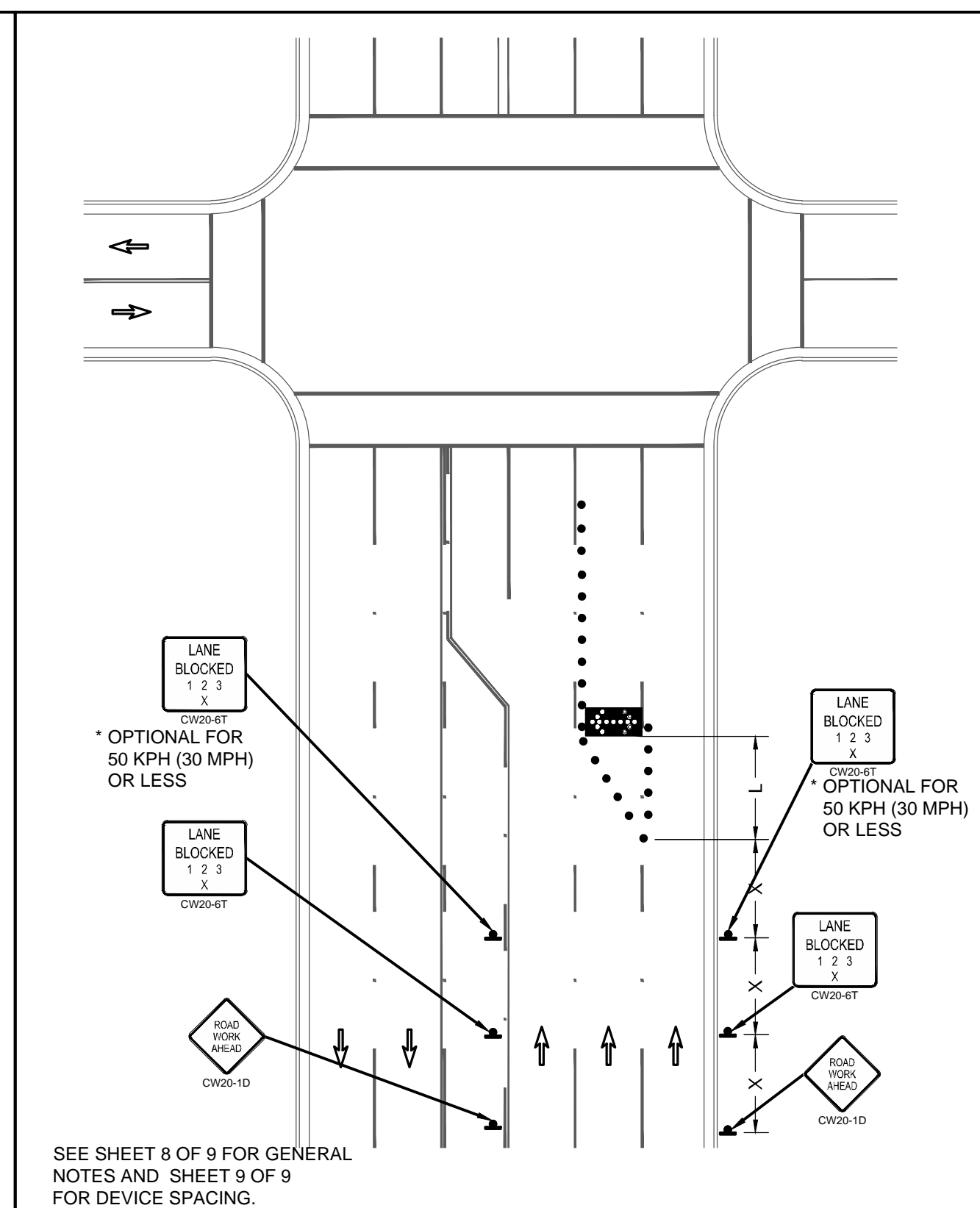
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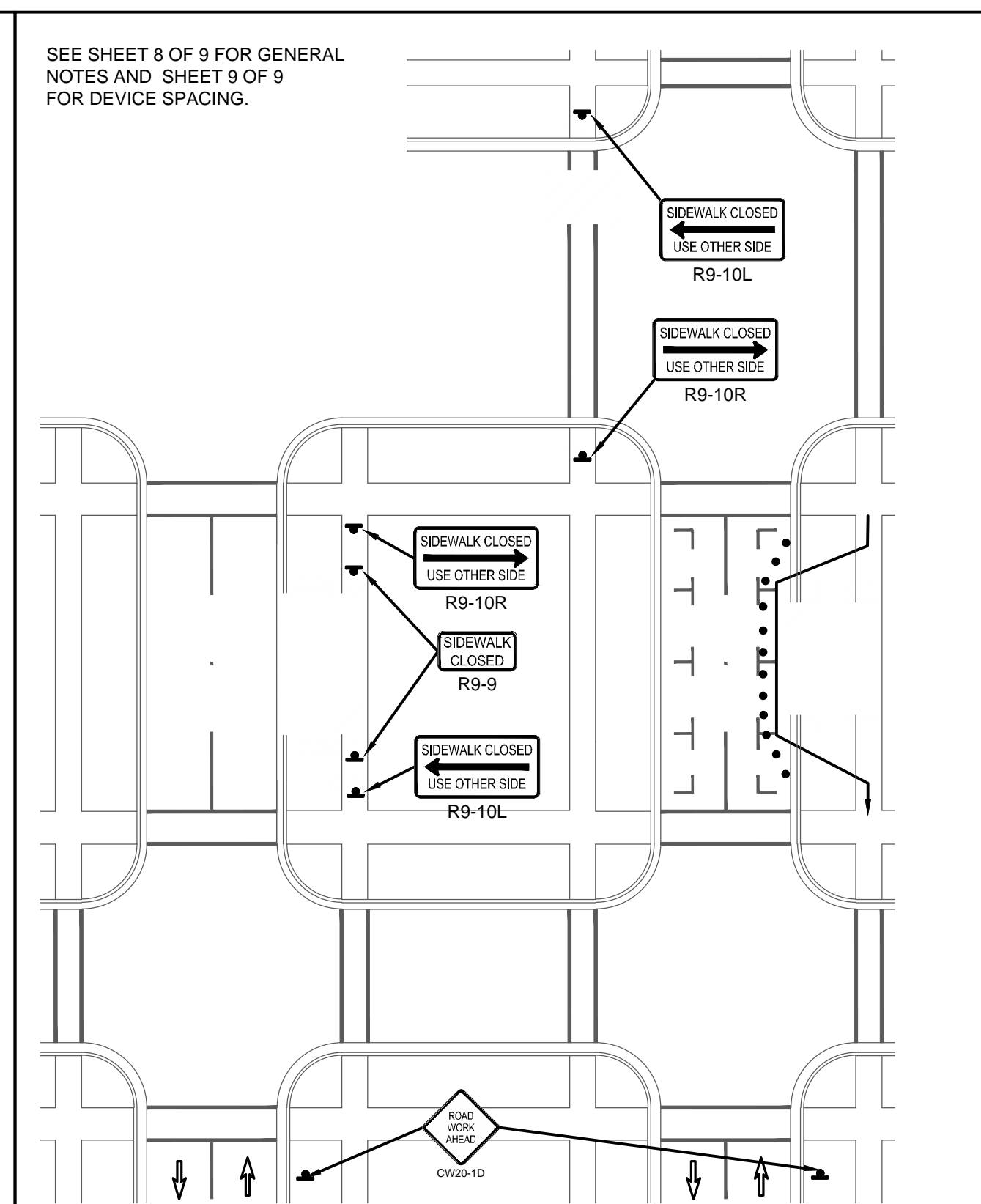
CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	ARTERIAL ONE LANE CLOSURE	
RECORD COPY SIGNED BY KERI JUAREZ	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 804S-1 1 OF 9
01/04/11 ADOPTED		



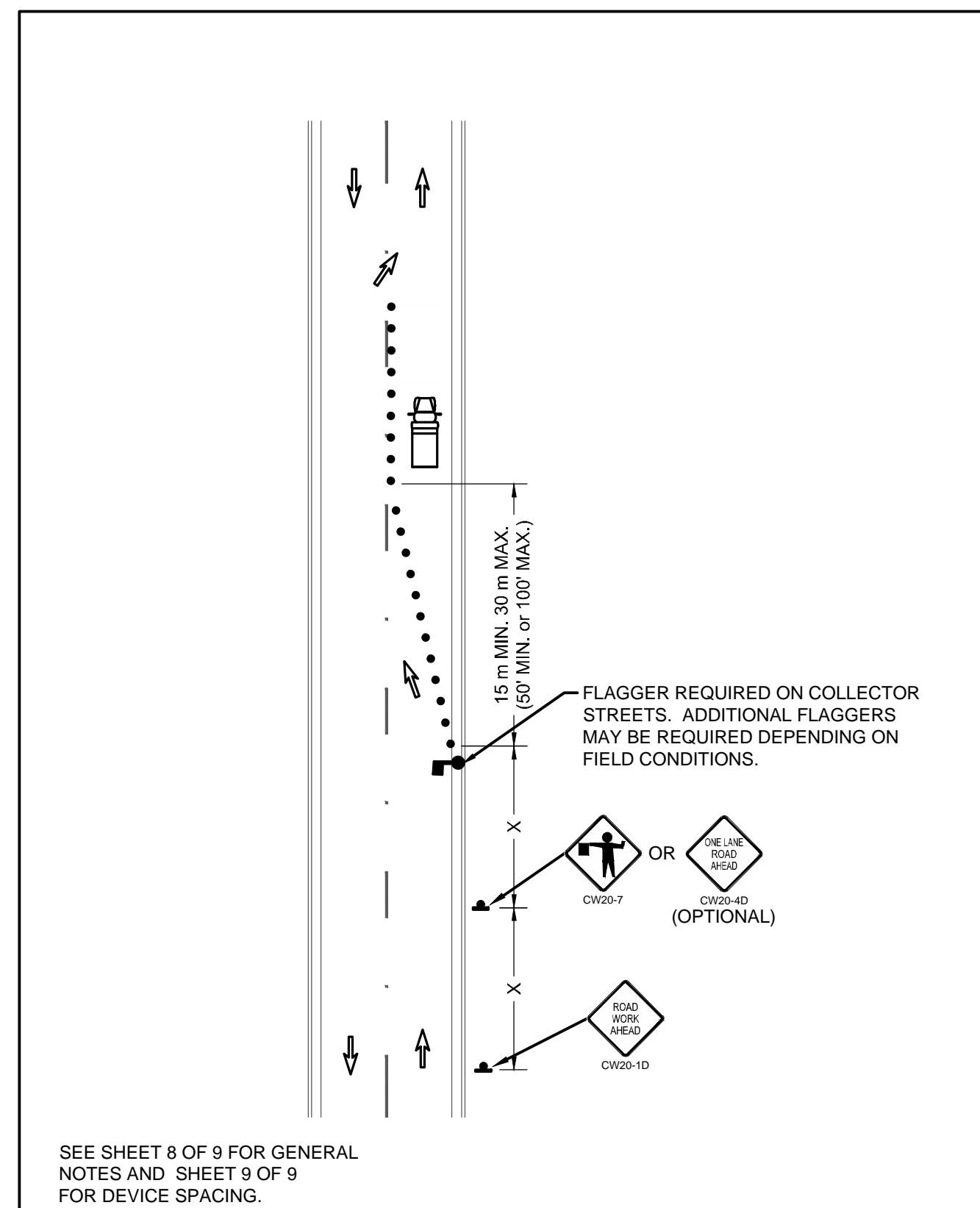
CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	ONE WAY ARTERIAL TWO-LANE CLOSURE
RECORD COPY SIGNED BY KERI JUAREZ _____ _____ _____	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD. STANDARD NO. 804S-1 2 OF 9
01/04/11 ADOPTED	



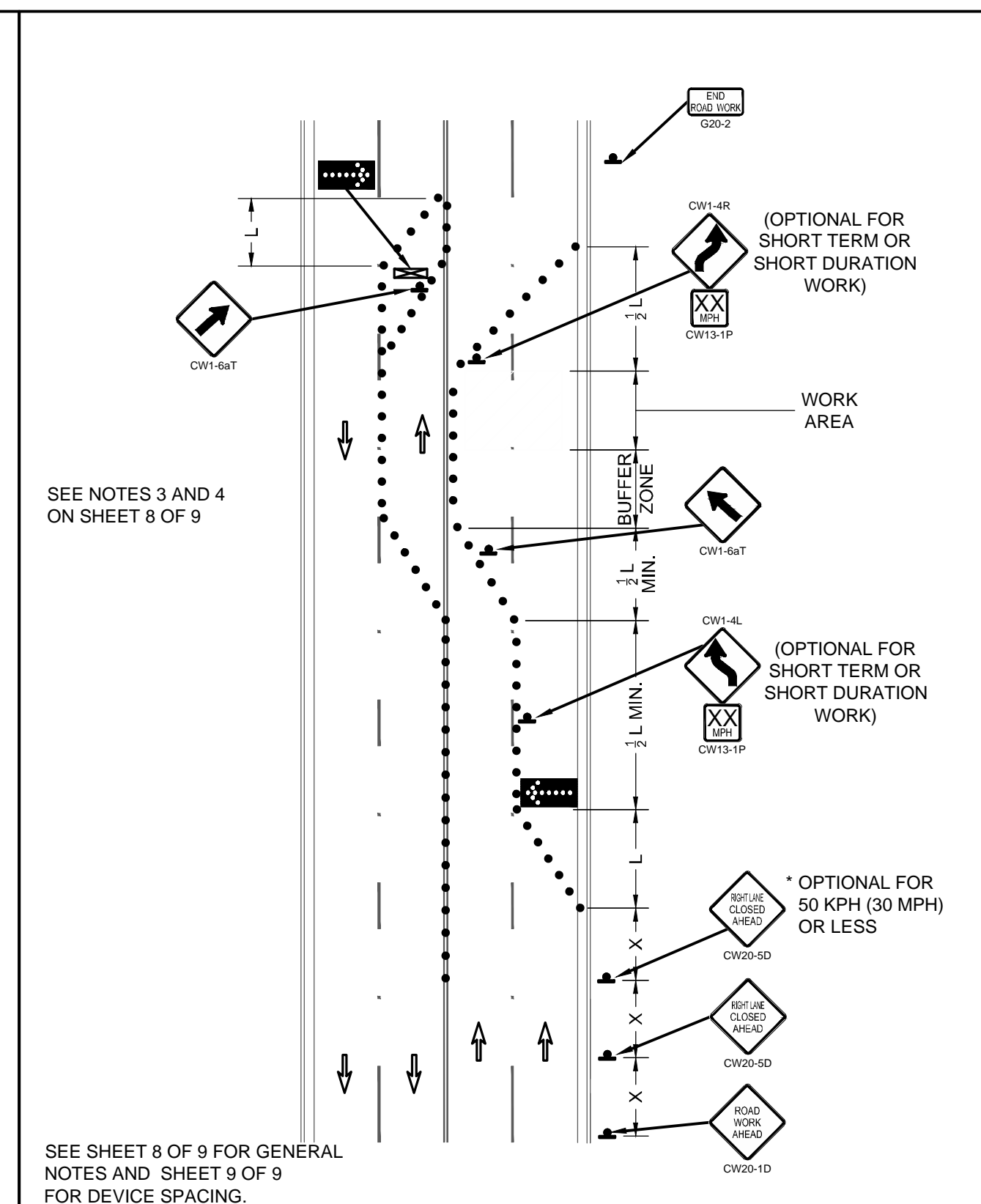
CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS		TWO WAY, DIVIDED ARTERIAL ONE LANE CLOSURE	
RECORD COPY SIGNED BY KERI JUAREZ 01/04/11		THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 804S-1 3 OF 9



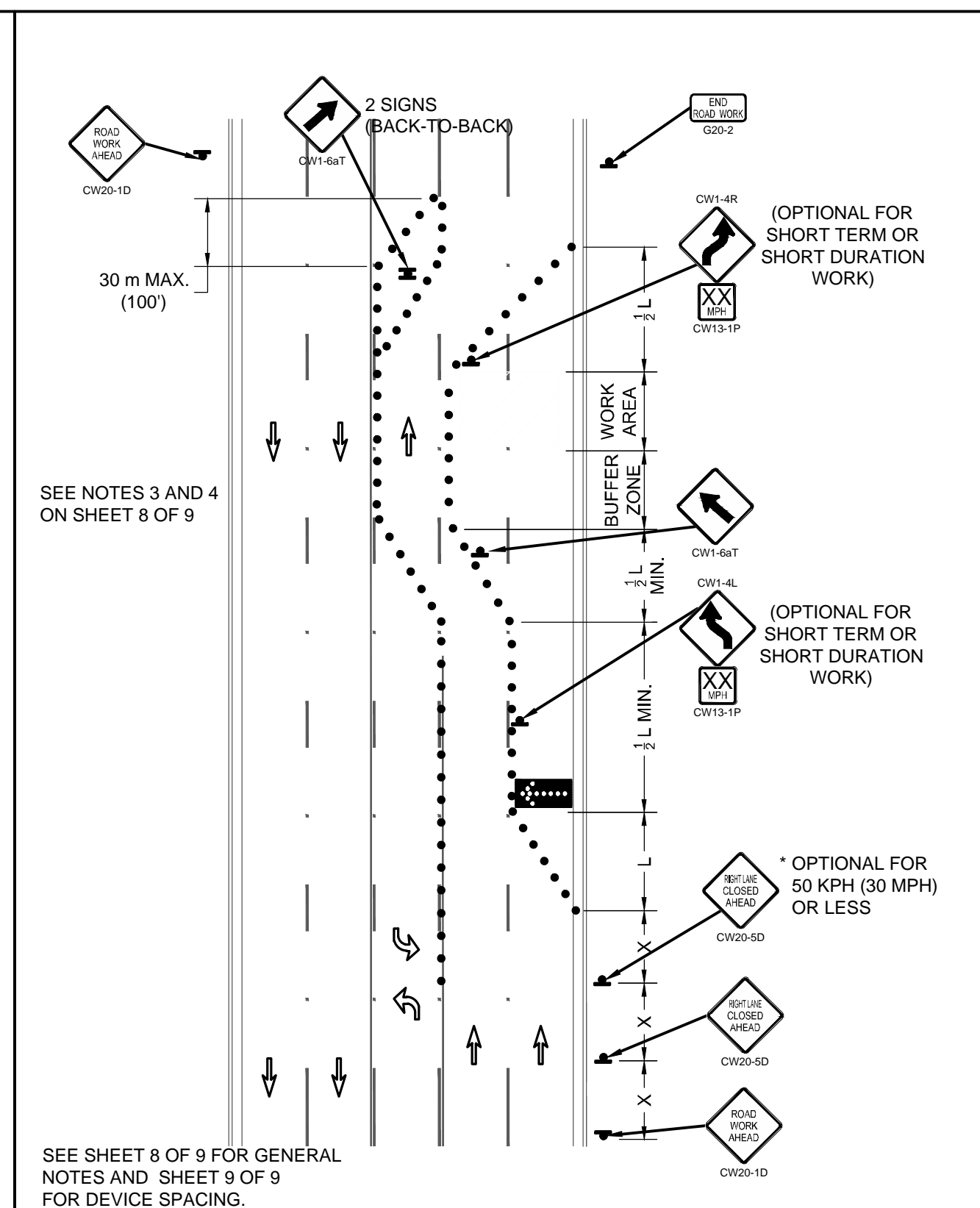
CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	BYPASS WALKWAY, SIDEWALK AND CROSSWALK CLOSURES
RECORD COPY SIGNED BY KERI JUAREZ <u> </u> 01/04/11 ADPTD	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD. STANDARD NO. 804S-1 4 OF 9



CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	COLLECTOR/RESIDENTIAL LANE CLOSURES	
RECORD COPY SIGNED BY KERI JUAREZ	01/04/11 ADOPTED	STANDARD NO. 804S-1 5 OF 9



CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS		TYPICAL TRAFFIC CONTROL PLAN FOR SHIFTING TRAFFIC	
RECORD COPY SIGNED BY KERI JUAREZ	01/04/11 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 804S-1 6 OF 9



CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS		TYPICAL TRAFFIC CONTROL PLAN FOR SHIFTING TRAFFIC	
RECORD COPY SIGNED BY KERI JUAREZ _____		THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 804S-1 7 OF 9
_____ 01/04/11			

1. ALL SETUPS SHALL BE IN ACCORDANCE WITH THE CURRENT ADDITION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND THE CITY OF AUSTIN TRANSPORTATION CRITERIA MANUAL.
2. TO DETERMINE APPROPRIATE DEVICES AND SIGN SIZES TO BE USED, REFER TO STANDARD 804S-5. SHEETS 5, 6 AND 7 OF 13.
3. FOR INTERMEDIATE-TERM SITUATIONS, WHEN IT IS NOT FEASIBLE TO REMOVE AND RESTORE PAVEMENT MARKINGS, THE CHANNELIZATION MUST BE MADE DOMINANT BY USING A VERY CLOSE DEVICE SPACING. THIS IS ESPECIALLY IMPORTANT IN LOCATIONS OF CONFLICTING INFORMATION, SUCH AS WHERE TRAFFIC IS DIRECTED OVER A DOUBLE YELLOW CENTERLINE. IN SUCH LOCATIONS, A MAXIMUM CHANNELIZING DEVICE SPACING OF 3 m (10') IS REQUIRED.
4. FOR LONG TERM STATIONARY WORK, ALL CONFLICTING PAVEMENT MARKINGS MUST BE REMOVED AND CENTERLINE STRIPING PROVIDED WHERE TWO WAY TRAFFIC IS IN ADJACENT LANES.
5. FOR TEMPORARY PAVEMENT MARKING REQUIREMENTS SEE STANDARD 804S-3.
6. FOR ONE-WAY AND MULTI-LANE ROADWAYS THE "LANE BLOCKED" SIGN MAY BE USED IN LIEU OF THE "LANE CLOSED AHEAD" SIGN. THE NUMBER OF DIGITS ON THE SIGN SHALL NOT BE GREATER THAN THE NUMBER OF LANES PRESENT ON THE ROADWAY. THE "X" SHALL BE PLACED UNDER THE NUMBER OF LANE(S) BLOCKED.
7. FOR FLAGGING OPERATION REQUIREMENTS SEE STANDARD 804S-2.
8. CONTRACTOR SHALL PROVIDE SIDEWALK CLOSURES, CROSSWALK CLOSURES OR WALKWAY BYPASS WHEREVER PEDESTRIAN MOVEMENTS ARE AFFECTED BY CONSTRUCTION ACTIVITIES. ALL SIDEWALKS AND CROSSWALKS SHALL BE ACCESSIBLE WHEN CONTRACTOR IS NOT WORKING UNLESS APPROVED BY THE TRANSPORTATION DIVISION.
9. FOR EXCAVATION PROTECTION AND SAFETY FENCE REQUIREMENTS SEE STANDARD 804S-4.
10. THE USE OF ARROW DISPLAYS ARE REQUIRED ON ALL LANE CLOSURES. THE CONTRACTOR SHALL PROVIDE ONE (1) STAND-BY UNIT IN GOOD WORKING CONDITION AT THE JOB SITE, READY FOR USE IF THE OPERATION REQUIRES 24-HOUR A DAY LANE CLOSURE SET-UPS.

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS		GENERAL NOTES	
RECORD COPY SIGNED BY KERI JUAREZ _____ 01/04/11 _____ ADOPTED		THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 804S-1 8 OF 9

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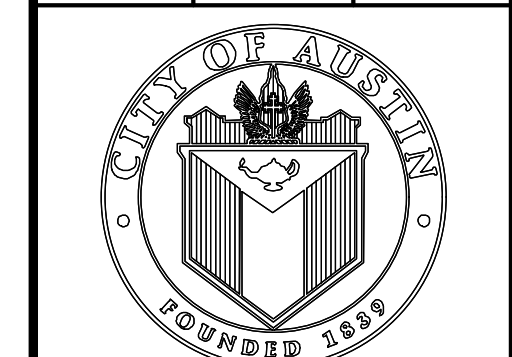
THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY CHRISTOPHER J. EVANS LIC. # 109857

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CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

UNION CREEK DISTRICT PARK
RECLAIMED MAIN PHASE 2

STANDARD TRAFFIC CONTROL DETAILS
SHEET 1 OF 6

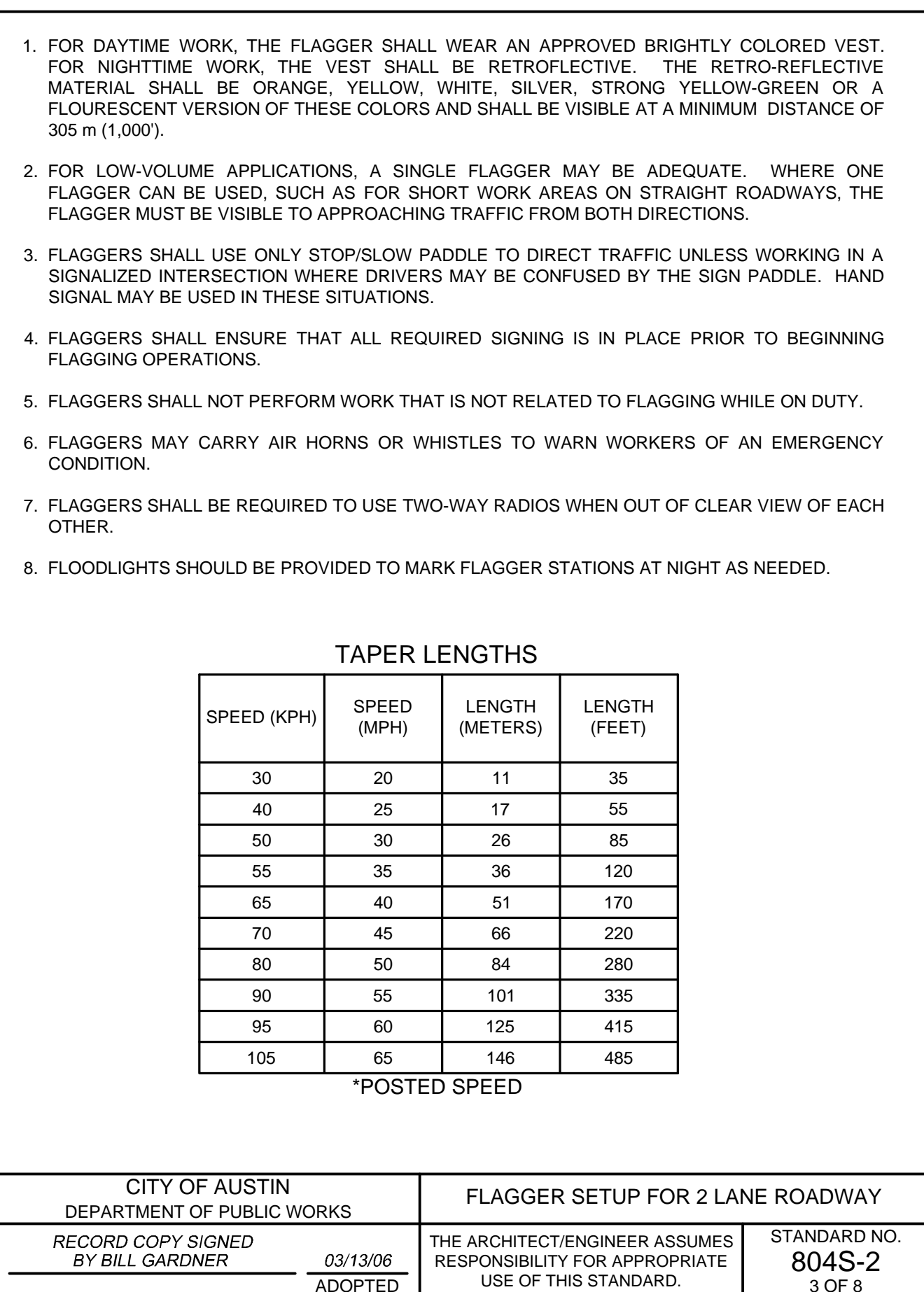


NOTES	NAME	DATE
SURVEY BY	QMD	03/2018
DRAWN BY	CE	05/2019
DESIGNED BY	CE	05/2019
CHECKED BY	BA	05/2019
REVIEWED BY	ESD	05/2019



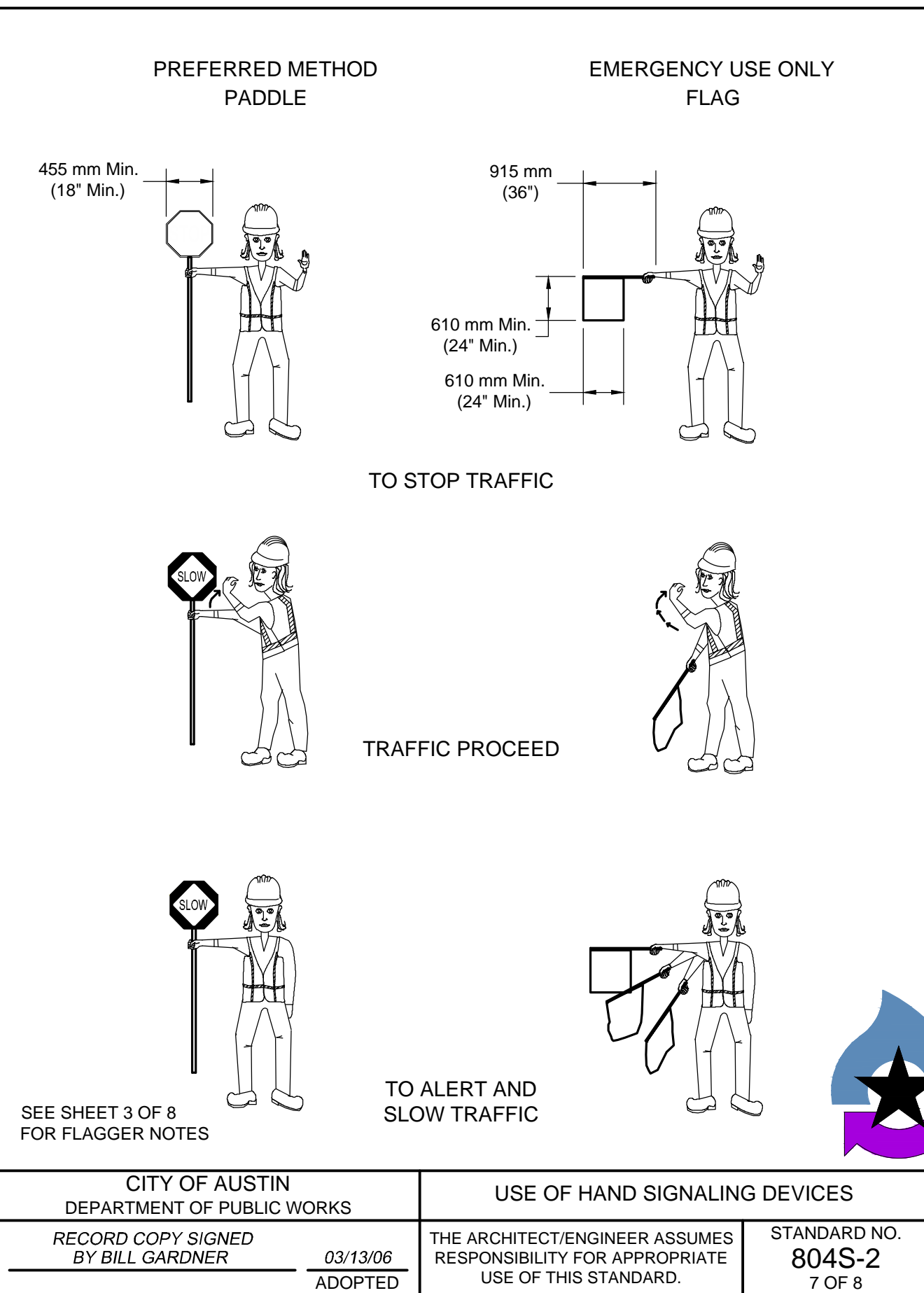
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<p>FLAGGER REQUIRED ON COLLECTOR STREETS</p> <p>USE OF SECOND FLAGGER IS OPTIONAL.</p> <p>SEE SHEET 3 OF 8 FOR FLAGGER NOTES AND TAPER LENGTHS. SEE SHEET 8 OF 8 FOR DEVICE SPACING.</p>		<p>NOTE:</p> <p>WARNING SIGN SEQUENCE IN OPPOSITE DIRECTION SAME AS BELOW.</p>	
		<p>FLAGGER REQUIRED ON COLLECTOR STREETS</p> <p>OR</p> <p>ONE-LANE ROAD AHEAD (OPTIONAL)</p> <p>ROAD WORK AHEAD</p>	
<p>CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS</p> <p>RECORD COPY SIGNED BY BILL GARDNER</p> <p>03/13/06</p> <p>ADOPTED</p>		<p>COLLECTOR / RESIDENTIAL STREET FLAGGING OPERATIONS</p> <p>THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.</p> <p>STANDARD NO. 804S-2</p> <p>1 OF 8</p>	



SEE SHEET 3 OF 8
FOR FLAGGER NOTES
AND TAPER LENGTHS.
SEE SHEET 8 OF 8
FOR DEVICE SPACING.

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS		STREET DETOUR SINGLE DIRECTION	
RECORD COPY SIGNED BY BILL GARDNER	03/13/06 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 804S-2 5 OF 8



EVANS, CHRISTOPHER

Typical Transition Lengths and Suggested Maximum Spacing of Devices								
			MINIMUM DESIRABLE TAPER LENGTHS (L) METERS (FEET)			SUGGESTED MAX DEVICE SPACING		SUGGESTED SIGN SPACING METERS (FEET)
SPEED KPH	POSTED SPEED MPH	FORMULA	3.0(10) OFFSET METERS (FEET)	3.3(11) OFFSET METERS (FEET)	3.6(12) OFFSET METERS (FEET)	ON A TAPER METERS (FEET)	ON A TANGENT METERS (FEET)	'X' Dimension
50	30	L=WS ₆₀	45 (150)	50 (165)	55 (180)	9 (30)	15-20 (50-65)	40 (120)
55	35		65 (205)	70 (225)	75 (245)	10 (35)	20-25 (65-80)	50 (160)
65	40		80 (265)	90 (295)	100 (320)	12 (40)	25-30 (80-100)	75 (240)
70	45		135 (450)	150 (495)	165 (540)	13 (45)	25-30 (80-100)	100 (320)
80	50	L=WS	150 (500)	165 (550)	180 (600)	15 (50)	30-35 (100-110)	120 (400)
90	55		165 (550)	185 (605)	200 (660)	16 (55)	35-40 (110-130)	150 (500)
95	80		180 (600)	200 (660)	220 (720)	18 (60)	40-45 (130-150)	180 (600)
105	65		195 (650)	215 (715)	235 (780)	19(65)	45-50 (150-165)	210 (700)
115	70		215 (770)	235 (770)	255 (840)	21 (70)	50-55 (165-180)	240 (800)

LEGEND

☐ Channelizing devices

 Trailer mounted flashing arrow board

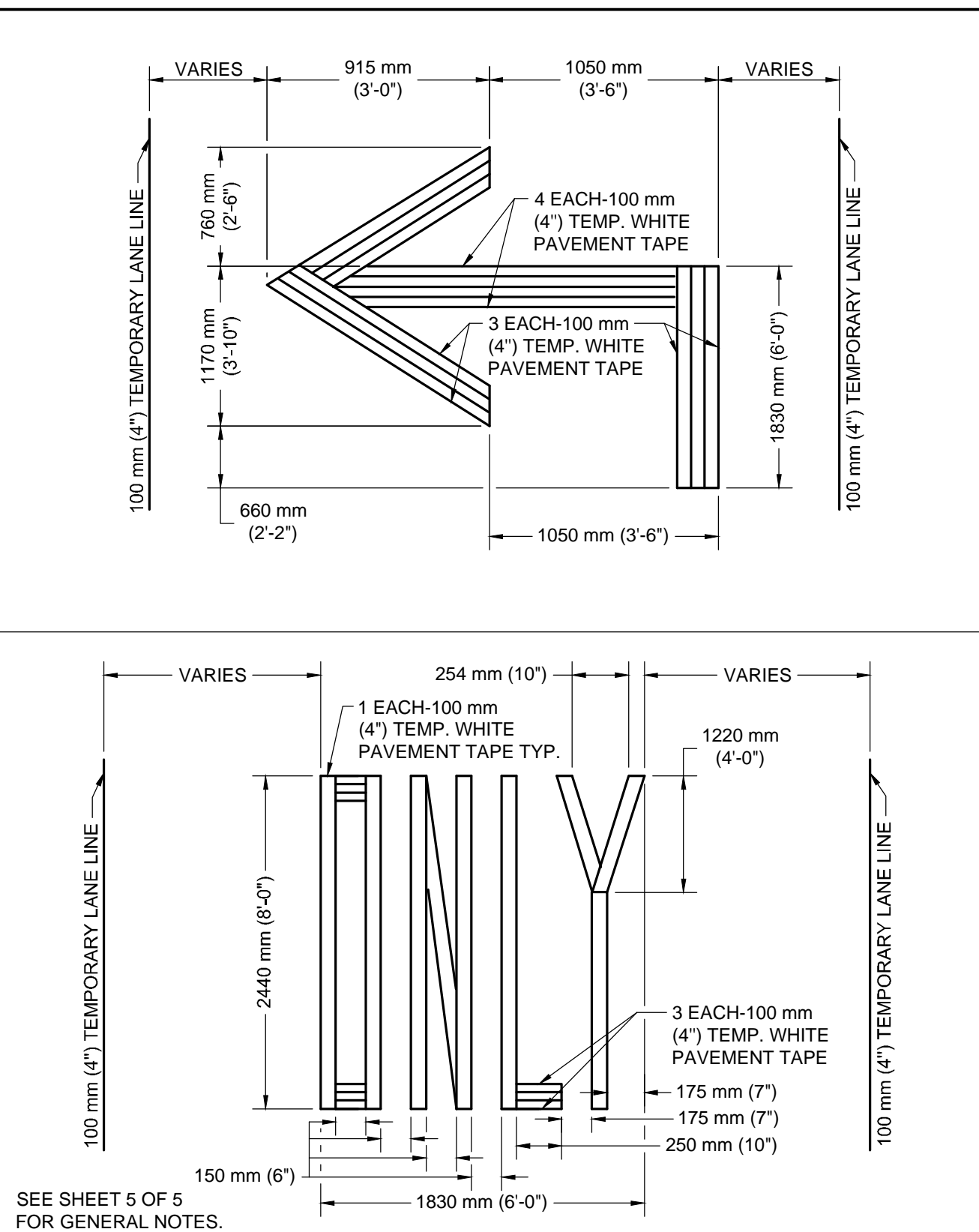
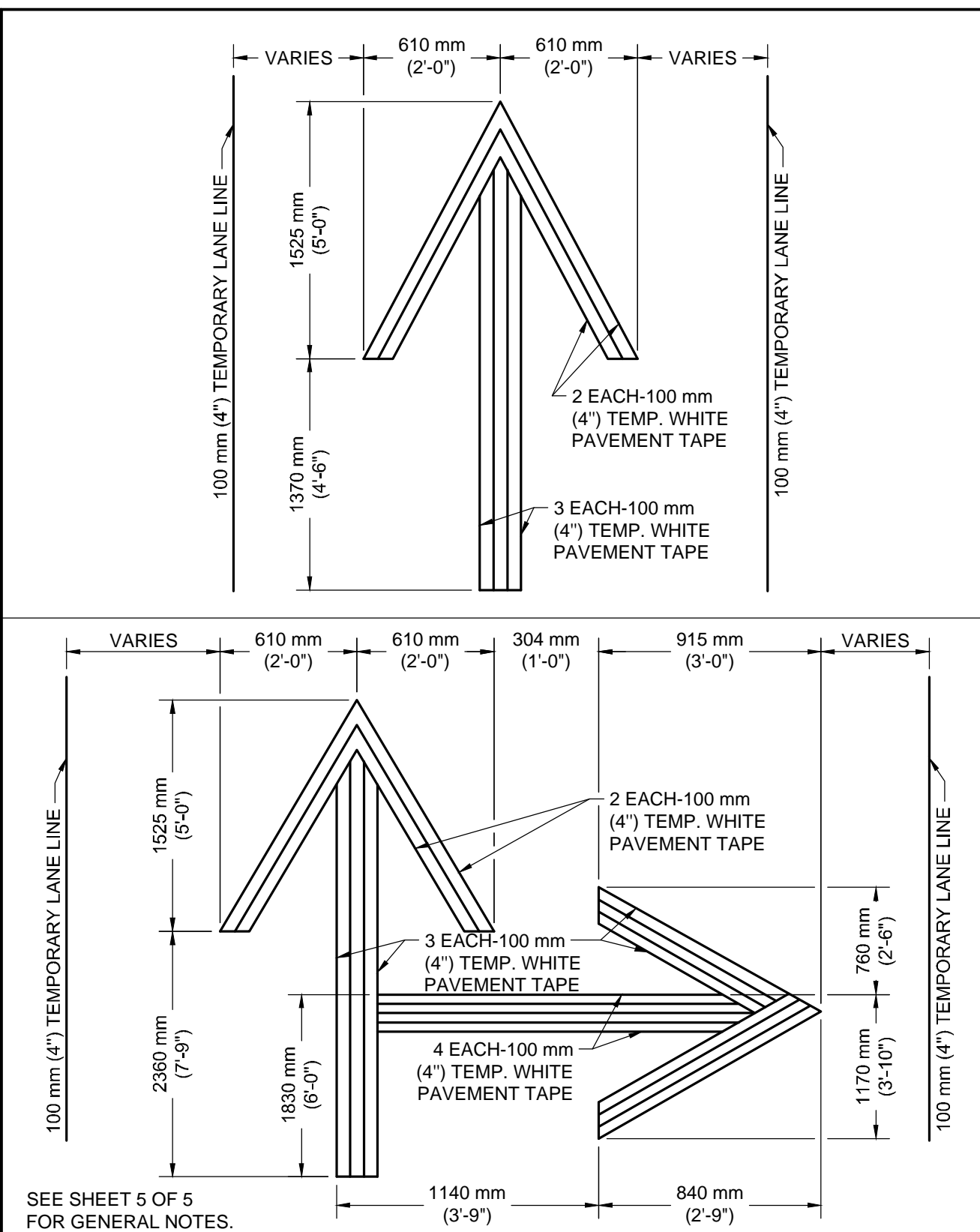
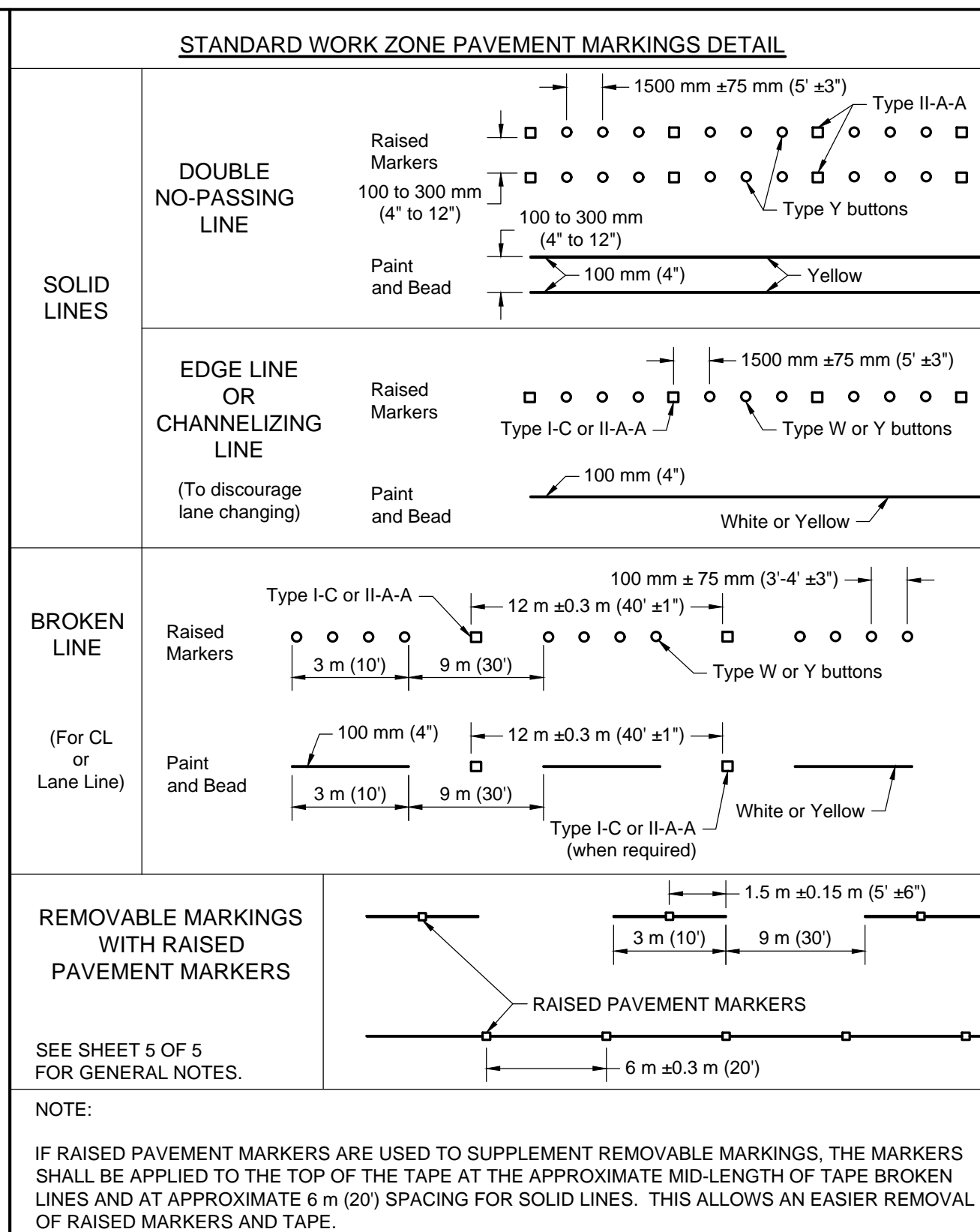
Flagger

TRAFFIC DETOUR NOTES:

- "STREET CLOSED" AND "STREET CLOSED TO THRU TRAFFIC" MAY BE USED IN PLACE OF "ROAD CLOSED" AND "ROAD CLOSED TO THRU TRAFFIC".
- THE USE OF A STREET SIGN NAME MOUNTED WITH THE M4-9 DETOUR SIGN** IS REQUIRED. THE STREET NAME PLATE SHOULD BE PLACED ABOVE THE DETOUR SIGN. THE PLATE MAY HAVE EITHER A WHITE-ON-GREEN OR A BLACK-ON-ORANGE LEGEND.
- ADDITIONAL "DO NOT ENTER SIGNS" MAY BE DESIRABLE AT INTERSECTIONS WITH INTERVENING STREETS.
- A M4-9 DETOUR SIGN** WITH AN ADVANCE TURN ARROW MAY BE USED IN ADVANCE OF A TURN ON MULTI-LANE STREETS, SUCH SIGNS SHOULD BE USED.
- M4-9 DETOUR SIGNS** MAY BE LOCATED ON THE FAR SIDE OF INTERSECTIONS.

**** TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES**

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS RECORD COPY SIGNED BY BILL GARDNER <div style="text-align: right; border-top: 1px solid black; width: 100px; margin-top: 5px;">03/13/06</div>	TYPICAL LENGTHS & SPACING OF DEVICES LEGEND AND GENERAL NOTES THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD. STANDARD NO. 804S-2 8 OF 8
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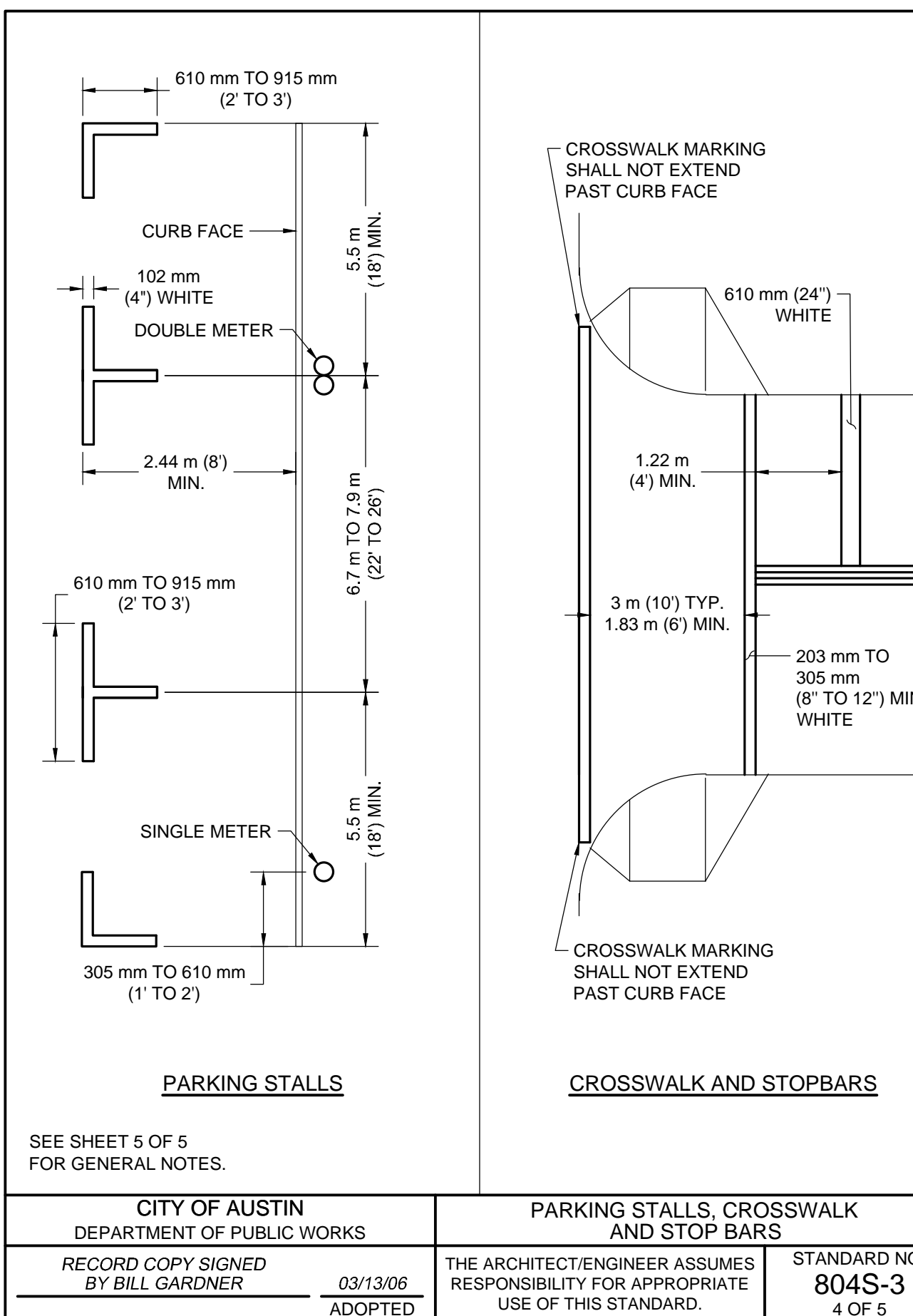


CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS		TYPICAL LENGTHS & SPACING OF DEVICES LEGEND AND GENERAL NOTES	
RECORD COPY SIGNED BY BILL GARDNER		THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 8045-2 8 OF 8
		03/13/06 ADOPTED	

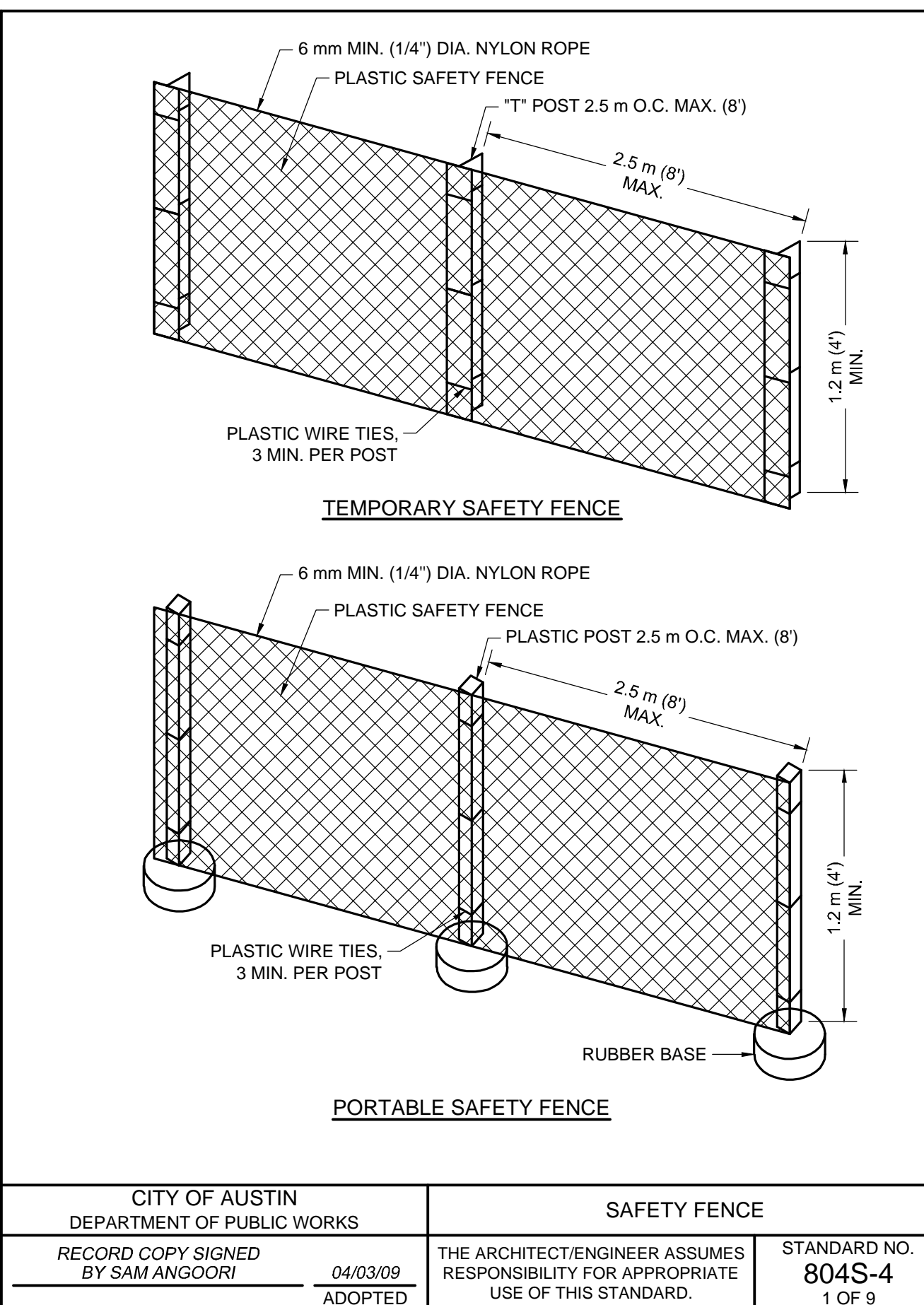
CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS		TEMPORARY TRAFFIC CONTROL PAVEMENT MARKINGS	
RECORD COPY SIGNED BY BILL GARDNER	03/13/06 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 804S-3 1 OF 5

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS		TEMPORARY REMOVABLE TAPE, ARROWS AND LEGENDS	
RECORD COPY SIGNED BY BILL GARDNER	03/13/06 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 8045-3 2 OF 5

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS		TEMPORARY REMOVABLE TAPE, ARROWS AND LEGENDS	
RECORD COPY SIGNED BY BILL GARDNER	03/13/06 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 804S-3 3 OF 5



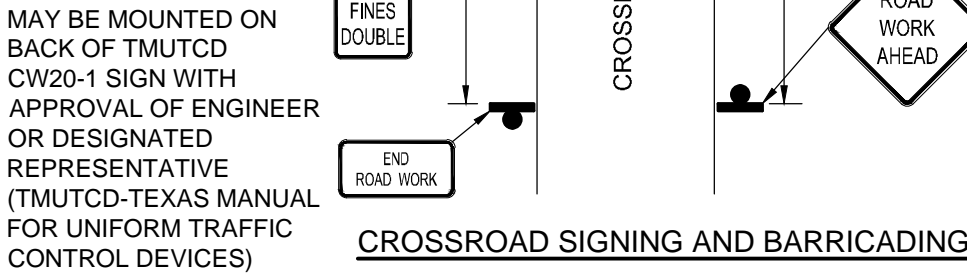
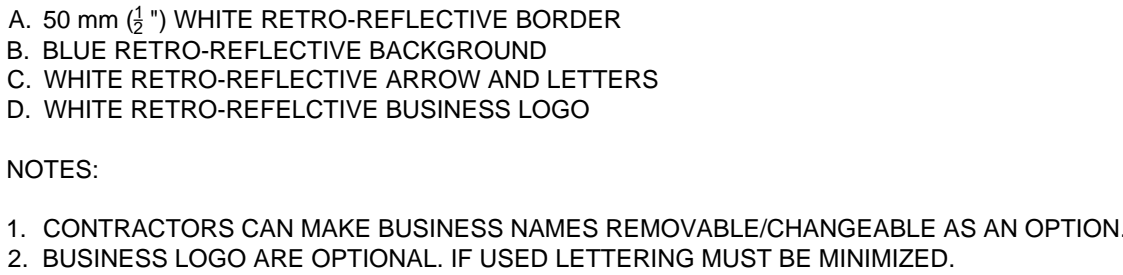
<p>1. ALL PAVEMENT MARKINGS USED SHALL CONFORM TO THE CURRENT EDITION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD) AND THE CITY OF AUSTIN TRANSPORTATION CRITERIA MANUAL.</p> <p>2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL TEMPORARY AND EXISTING PAVEMENT MARKINGS ON ALL ROADWAYS WITHIN THE CONSTRUCTION LIMITS AND ON ANY ROADWAY OUTSIDE THE CONSTRUCTION LIMITS THAT REQUIRES THE REROUTING OF TRAFFIC FOR HIS WORK.</p> <p>3. ALL ROADWAYS TO BE OPENED TO TRAFFIC SHALL HAVE TEMPORARY OR STANDARD PAVEMENT MARKINGS INSTALLED AS SHOWN IN THE DRAWINGS, AT THE END OF EACH DAY'S OPERATION.</p> <p>4. MARKINGS SHALL PROVIDE A VISIBLE REFERENCE FOR A MINIMUM DISTANCE OF 91.5 m (300') DURING NORMAL DAYLIGHT HOURS AND 49 m (160') WHEN ILLUMINATED BY AUTOMOBILE LOW-BEAM HEADLIGHTS AT NIGHT, UNLESS SIGHT DISTANCE IS RESTRICTED BY ROADWAY GEOMETRICS.</p> <p>5. ALL TEMPORARY REMOVABLE PAVEMENT MARKINGS SHALL BE SUPPLEMENTED WITH RAISED PAVEMENT MARKERS.</p> <p>6. TEMPORARY REMOVABLE PAVEMENT MARKING TAPE IS THE PREFERRED PAVEMENT MARKING. HOWEVER, THE CONTRACTOR MAY, WITH APPROVAL OF THE ENGINEER OR DESIGNATED REPRESENTATIVE, USE RAISED PAVEMENT MARKINGS, PAINT AND BEADS OR THERMOPLASTIC IF THE ROADWAY IS TO BE COMPLETELY RESURFACED.</p> <p>7. PAVEMENT MARKINGS THAT ARE NO LONGER APPLICABLE AND WHICH MAY CREATE CONFUSION OR DIRECT A MOTORIST TOWARD OR INTO THE CLOSED PORTION OF THE ROADWAY, SHALL BE REMOVED OR OBLITERATED BEFORE THE ROADWAY IS OPENED TO TRAFFIC. THE ABOVE DOES NOT APPLY TO SHORT-DURATION, SHORT TERM STATIONARY OR INTERMEDIATE TERM STATIONARY WORK.</p> <p>8. REMOVAL OR OBLITERATION OF PAVEMENT MARKINGS INCLUDES CENTERLINES, CHANNELIZING LINES, LANE LINES, EDGE LINES, WORDS, ARROWS, SYMBOLS AND RAISED PAVEMENT MARKINGS.</p> <p>9. PAVEMENT MARKINGS SHALL BE REMOVED OR OBLITERATED TO THE FULLEST EXTENT POSSIBLE, SO AS NOT TO LEAVE A DISCERNIBLE MARK. GRINDING OF PAVEMENT MARKINGS WILL ONLY BE ALLOWED ON PAVEMENT THAT IS TO BE COMPLETELY REPLACED.</p> <p>10. TEMPORARY FLEXIBLE-REFLECTIVE TABS MAY BE USED FOR TEMPORARY PAVEMENT MARKINGS ON NEW PAVEMENT, PROVIDED THEY ARE PLACED ON 1.5 m (5') CENTERS.</p> <p>11. THE CONTRACTOR SHALL PLACE TEMPORARY FLEXIBLE-REFLECTIVE TABS IMMEDIATELY AFTER THE FINAL HMAC OVERLAY AS EACH LANE IS COMPLETED AND READY FOR TRAFFIC. NO DIRECT PAYMENT WILL BE MADE FOR THIS OPERATION, BUT WILL BE CONSIDERED SUBSIDIARY TO THE OTHER BID ITEMS. FINAL STRIPING SHOULD BE COMPLETED WITHIN FOURTEEN (14) DAYS OF THE FINAL PAVING.</p>		<p>CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS</p>		<p>GENERAL NOTES</p>	
<p>RECORD COPY SIGNED BY BILL GARDNER</p>		<p>03/13/06 ADOPTED</p>		<p>THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.</p>	
				<p>STANDARD NO. 804S-3 5 OF 5</p>	



1. SAFETY FENCE SHALL BE USED TO PROTECT ALL EXCAVATIONS IN THE RIGHT-OF-WAY.
2. SAFETY FENCES SHALL BE USED TO SEPARATE CONSTRUCTION ACTIVITIES FROM PEDESTRIAN.
3. ALL SAFETY FENCING SHALL BE PLASTIC, 1,200 mm (48") MINIMUM HEIGHT AND ORANGE IN COLOR.
4. SAFETY FENCE USED WITHIN THE ROADWAY SHALL BE REFLECTORIZED WITH A MINIMUM OF TWO (2) STRIPS OF RETROREFLECTIVE MATERIAL, A MINIMUM OF 25 mm (1") WIDE, THE LENGTH OF THE FENCE OR DELINEATED BY CHANNELIZING DEVICES.
5. SAFETY FENCE USED TO SEPARATE SIDEWALKS FROM CONSTRUCTION ACTIVITIES SHALL HAVE MINIMUM ENCROACHMENT TO THE SIDEWALK.
6. AS A MINIMUM, SAFETY FENCING IS REQUIRED IN AREAS ADJACENT TO EXCAVATIONS GREATER THAN OR EQUAL TO 150 mm (6").
7. SAFETY FENCING SHALL BE PAID FOR UNDER ITEM 803S, "BARRICADES, SIGNS AND TRAFFIC HANDLING", PAY ITEM NO. 803S-SF.
8. PORTABLE SAFETY FENCE MOUNTS SHALL BE APPROVED BY THE TRANSPORTATION DIVISION PRIOR TO CONSTRUCTION.

<p>CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS</p> <p>RECORD COPY SIGNED BY SAM ANGOORI</p> <p>04/03/09 ADOPTED</p>	<p>SAFETY FENCE</p> <p>THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.</p>	<p>STANDARD NO. 804S-4 2 OF 9</p>
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SEE STANDARD 804S-5 SHEET 12 OF 13
AND SHEET 13 OF 13 FOR GENERAL
NOTES AND DEVICE SPACING.

3. ALL TRAFFIC CONTROL DEVICES, SIGNS, BARRICADES AND WARNING SIGNS SHALL BE FURNISHED, PLACED, CONSTRUCTED AND MAINTAINED IN THE APPROPRIATE TYPES AND SIZES AND FLAGGER OPERATIONS EXECUTED IN ACCORDANCE WITH THE CURRENT EDITION OF THE TEXAS MANUAL ON UNIFORM CONTROL DEVICES (TMUCD), THE CITY OF AUSTIN STANDARD SPECIFICATIONS SERIES 800 AND THE CITY OF AUSTIN TRANSPORTATION CRITERIA MANUAL, OR AS DIRECTED BY THE ENGINEER OR DESIGNATED REPRESENTATIVE. IF A CONFLICT ARISES THEN THE CITY OF AUSTIN TRANSPORTATION CRITERIA MANUAL SHALL CONTROL UNLESS OTHERWISE INSTRUCTED BY THE ENGINEER OR DESIGNATED REPRESENTATIVE.
2. THE CONTRACTOR SHALL NOTIFY THE TRANSPORTATION DIVISION OF THE DEPARTMENT OF PUBLIC WORKS AT 974-2410 NO LATER THAN TWO (2) WEEKS BEFORE THE WEEK DURING WHICH THE CONTRACTOR INTENDS TO SET UP BARRICADES TO BE PAID FOR CONSTRUCTION.
3. PROPOSED CONSTRUCTION TRAFFIC MOVEMENTS MAY REQUIRE EXISTING SIGNAL HEADS TO BE RELOCATED. THE CITY OF AUSTIN WILL REVIEW SIGNAL HEAD LOCATIONS DURING CONSTRUCTION AND PERFORM THE REQUIRED ADJUSTMENTS. THE CONTRACTOR SHALL CONTACT THE TRANSPORTATION DIVISION OF THE DEPARTMENT OF PUBLIC WORKS AT 974-7024, THREE (3) DAYS PRIOR TO PLACEMENT ANY TRAFFIC CONTROLS WHICH MAY REQUIRE SIGNAL HEAD ADJUSTMENTS/RELOCATION.
4. THE CONTRACTOR SHALL PROVIDE ONE (1) FULL-TIME OFF-DUTY, UNIFORMED AUSTIN POLICE DEPARTMENT CERTIFIED PEACE OFFICER AND ONE (1) VEHICLE OF THE TYPE APPROVED BY THE ENGINEER OR DESIGNATED REPRESENTATIVE FOR TEMPORARY LANE CLOSURES WHEN UNDER SEALING, MILLING, PAVING AND WHEN WORKING IN INTERSECTIONS AS PART OF THE TRAFFIC CONTROL OPERATIONS. THE PEACE OFFICER SHALL BE ABLE TO SHOW PROOF OF CERTIFICATION BY THE TEXAS COMMISSION ON LAW ENFORCEMENT OFFICER STANDARDS.
5. THE CONTRACTOR SHALL NOTIFY ALL OTHER GOVERNMENTAL AGENCIES WHOSE RIGHTS-OF-WAY ARE AFFECTED BY HIS WORK ACTIVITIES. THE CONTRACTOR SHALL PROVIDE ANY ADDITIONAL TRAFFIC CONTROL DEVICES THAT HE MAY NEED.
6. THE CONTRACTOR SHALL MAINTAIN ONE (1) DUTY-FREE LANE OF TRAFFIC IN EACH DIRECTION AT ALL TIMES, UNLESS OTHERWISE NOTED IN THE DRAWINGS OR APPROVED THE ENGINEER OR DESIGNATED REPRESENTATIVE.
7. THERE SHALL BE A MINIMUM OF THREE (3) METERS (10 FEET) CLEAR WIDTH FOR EACH LANE OF TRAFFIC IN CHANNELIZED AREAS, UNLESS OTHERWISE NOTED ON THE DRAWINGS OR APPROVED BY THE ENGINEER OR DESIGNATED REPRESENTATIVE.
8. THE CONTRACTOR SHALL MAINTAIN DRIVEWAY ACCESS AT ALL TIMES. IF ACCESS CANNOT BE MAINTAINED, THE CONTRACTOR WITH THE APPROVAL OF THE ENGINEER OR DESIGNATED REPRESENTATIVE SHALL PROVIDE AT LEAST 24 HOUR WRITTEN NOTICE OF LIMITED ACCESS TO AFFECTED PROPERTY OWNERS. THE CONTRACTOR SHALL PROVIDE BUSINESS ACCESS SIGNS AS NEEDED TO INFORM DRIVERS OF THE LOCATIONS OF ALL DRIVEWAYS.
9. TEMPORARY LANE CLOSURES IN THE CENTRAL BUSINESS DISTRICT (CBD) OR ON ARTERIAL STREETS SHALL NOT BE PERMITTED DURING THE HOURS OF 7 AM TO 4 PM AND 4 PM TO 6PM MONDAY THROUGH FRIDAY UNLESS PRIOR APPROVAL HAS BEEN OBTAINED FROM THE TRANSPORTATION DIVISION.
10. TRAFFIC CONTROL SHOWN ON STANDARD DETAILS IS TYPICAL. ADDITIONAL SIGNING AND/OR BARRICADING, AS WELL AS TEMPORARY PAVEMENT MARKINGS AND OBLITERATION/RESTORATION OF EXISTING PAVEMENT MARKINGS, MAY BE REQUIRED BASED ON FIELD CONDITIONS. FIELD ADJUSTMENTS TO TRAFFIC CONTROLS WILL NOT BE PAID FOR DIRECTLY, BUT WILL BE CONSIDERED SUBSIDIARY TO ITEM NO. 8038 "BARRICADES, SIGNS AND TRAFFIC HANDLING".
11. THE CONTRACTOR SHALL DESIGNATE A COMPETENT PERSON FOR TRAFFIC CONTROL. THE COMPETENT PERSON SHALL MAKE INSPECTIONS OF THE TRAFFIC CONTROL DEVICES AT LEAST TWO (2) TIMES A DAY (ONCE AT THE BEGINNING OF THE HOUR AND ONCE AT THE END OF THE DAY), INCLUDING NON-WORKING DAYS, ENSURING THAT ALL DEVICES ARE IN THEIR PROPER PLACE AND ARE IN WORKING ORDER.
12. ALL DEVICES SHALL BE MADE USING MATERIALS LISTED ON THE TxDOT APPROVED PRODUCTS LIST.

13. ALL PERSONS WORKING WITHIN THE RIGHT-OF-WAY SHALL WEAR A BRIGHTLY COLORED SAFETY VEST. FOR NIGHTTIME WORK THE VEST SHALL BE RETRO-REFLECTIVE.
14. WHEN AN INTERSECTION IS CLOSED FOR CONSTRUCTION, THE CONTRACTOR SHALL PROCEED WITH CONSTRUCTION IN SUCH A MANNER THAT THE CLOSURE TIME IS MINIMIZED.
15. THE CONTRACTOR SHALL NOTIFY THE CAPITAL METRO DISPATCHER AT 385-4295 ONE (1) WEEK PRIOR TO LANE CLOSURES ADJACENT TO BUS STOPS.

DURATION OF WORK

WORK DURATION IS A MAJOR FACTOR IN DETERMINING THE NUMBER AND TYPES OF DEVICES USED IN TEMPORARY TRAFFIC ZONES. THE FIVE (5) CATEGORIES OF WORK DURATION AND THEIR TIME AT A LOCATION ARE AS FOLLOWS:

- LONG-TERM STATIONARY-WORK THAT OCCUPIES A LOCATION FOR MORE THAN 3 DAYS.
- INTERMEDIATE-TERM STATIONARY-WORK THAT OCCUPIES A LOCATION FROM OVERNIGHT TO 3 DAYS
- SHORT-TERM STATIONARY-DAYTIME WORK THAT OCCUPIES A LOCATION FROM 1 TO 12 HOURS.
- SHORT-DURATION WORK THAT OCCUPIES A LOCATION UP TO 1 HOUR.
- MOBILE-WORK THAT MOVES INTERMITTENTLY OR CONTINUOUSLY.

Typical Transition Lengths and Suggested Maximum Spacing of Devices

			Minimum Desirable Taper Lengths (L) Meters (Feet)			Suggested Max. Device Spacing		Suggested Sign Spacing Meters (Feet)
Speed KM/PH	Posted Speed MPH	Formula	3.0(10) Offset Meters (feet)	3.3(11) Offset Meters (feet)	3.6(12) Offset Meters (feet)	On a taper Meters (feet)	On a tangent Meters (feet)	"X" Dimension
50	30	L= $\frac{WS}{60}^2$	45 (150)	50 (165)	55 (180)	10 (30)	15-20 (50-65)	40 (120)
55	35		65 (205)	70 (225)	75 (245)	10 (35)	20-25 (65-80)	50 (160)
65	40		80 (265)	90 (295)	100 (320)	12 (40)	25-30 (80-100)	75 (240)
70	45	L=WS	135 (450)	150 (495)	165 (540)	13 (45)	25-30 (80-100)	100 (320)
80	50		150 (500)	165 (550)	180 (600)	15 (50)	30-35 (100-110)	120 (400)
90	55		165 (560)	185 (605)	200 (660)	16 (55)	35-40 (110-130)	150 (500)
95	60	L=WS	180 (600)	200 (660)	220 (720)	18 (60)	40-45 (130-150)	180 (600)
105	65		195 (650)	215 (715)	235 (780)	19 (65)	45-50 (150-165)	210 (700)
115	70		215 (700)	235 (770)	255 (840)	21 (70)	50-55 (165-180)	240 (800)

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS			SPECIAL WORK ZONE SIGNS			CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS			SPECIAL WORK ZONE SIGNS			CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS			SIGNING AND BARRICADING CROSSROAD & DRIVEWAY			CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS			GENERAL TRAFFIC CONTROL NOTES														
RECORD COPY SIGNED BY SAM ANGOORI			01/04/10 ADOPTED			THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.			STANDARD NO. 804S-5 10 OF 13			RECORD COPY SIGNED BY SAM ANGOORI			01/04/10 ADOPTED			THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.			STANDARD NO. 804S-5 11 OF 13			RECORD COPY SIGNED BY SAM ANGOORI			01/04/10 ADOPTED			THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.			STANDARD NO. 804S-5 13 OF 13		

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CHRISTOPHER J. EVANS
LIC. # 109857

I CERTIFY THAT THESE DRAWINGS ARE
COMPLETE, ACCURATE AND ADEQUATE
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INCLUDING CONSTRUCTION, BUT ARE NOT
AUTHORIZED FOR CONSTRUCTION UNTIL
FORMAL CITY APPROVAL.

CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

ONION CREEK DISTRICT PARK
RECLAIMED MAIN PHASE 2

STANDARD TRAFFIC CONTROL DETAILS
SHEET 6 OF 6



NOTES	NAME	DATE
SURVEY BY	QMD	03/2018
DRAWN BY	CE	05/2019
DESIGNED BY	CE	05/2019
CHECKED BY	BA	05/2019
REVIEWED BY	ESD	05/2019



ENGINEERING SERVICES DIVISION

GP-2019-____.AWU

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